SMART DISPLAY

150DM

Service
Service
Service

150DM10P

Service Manual

TABLE OF CONTENTS

Description	Page	Description	Page
Important Safety Notice	2	Power Board Diagram	61-63
Specification	3-7	Main Board Diagram	64-73
Getting Started (A Complete Start Guide)	8-12	Cradle Board Diagram	74-76
Learn More	13-16	Key Board Diagram	77
Warning Message	17	Switch Board Diagram	78
Troubleshooting	18-19	Power Board Gerber	79
Error Code	20	Main Board Gerber	80
Definition of Pixel Defects	21	Cradle Board Gerber	81
Wiring Diagram	22	Exploded View	82-86
Mechanical Instructions	23-25	Spare Parts List	87-96
DDC Instructions	26-30	Recommended Parts List	97-98
Repair Flow Chart	31-58	Different Parts List	99
Repair tips	59	INSPECT WAY	100-107
Function Block Diagram	60		

http://www.wiel.nl

SAFETY NOTICE

ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING.

REFER TO BACK COVER FOR IMPORTANT SAFETY GUIDELINES

Published by BCU Monitor Printed in Taiwan Copyright reserved Subject to modification (F) September 9 2003 GB 3138 106 10294

飛利浦 PHILIPS PHILIPS

Important Safety Notice

Go to cover page

Proper service and repair is important to the safe, reliable operation of all **PHILIPS** Company** Equipment. The service procedures recommended by **PHILIPS** and described in this service manual are effective methods of performing service operations. Some of these service operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. **PHILIPS** could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, **PHILIPS** has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by **PHILIPS** must first satisfy himself thoroughly **that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.**

* * Hereafter throughout this manual, **PHILIPS** Company will **be referred to as PHILIPS.**

WARNING

Critical components having special safety characteristics are identified with a ⚠ by the Ref. No. in the parts list and enclosed within a broken line*
(where several critical components are grouped in one area) along with the safety symbol ⚠ on the schematics or exploded views.

Use of substitute replacement parts which do not have the same specified safety characteristics may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from **PHILIPS**. **PHILIPS assumes no liability, express or implied, arising out of any** unauthorized modification of design.
Servicer assumes all liability.

** Broken Line*

FOR PRODUCTS CONTAINING LASER :

DANGER- Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION- The use of optical instruments with this product will increase eye hazard.

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE MANUAL

Take care during handling the LCD module with backlight unit

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person□s body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a soft material. (Cleaning with a dirty or rough cloth may damage the panel.)

http://www.wiel.net

150DM10P

Front Page

- A Desktop monitor as well as a mobile monitor
- 15” color LCD display with touch panel
- Dual input - accepts both DVI Digital and VGA analog inputs
- Run PC applications and surf Internet remotely and wirelessly
- Run on Battery power or AC power
- Easy, user-friendly setup process
- Cool and quiet operation

Rear Page

Technical Specifications

Embedded system

- CPU: Intel Xscale Application Processor ™; 400MHz
- Memory: 64MB SDRAM (on board)
- Flash ROM: 32MB

Operating System

- Windows CE for smart displays

Wireless Communications

- 802.11b wireless LAN (built in)

LCD panel

• Type	TFT LCD
• Screen size	15 inch / 38.1 cm
• Pixel pitch	0.297 x 0.297mm
• LCD panel type	1024 x 768 pixels, R.G.B vertical stripe Anti-glare polarizer, hard coated
• Effective viewing area	304.1 x 228.1mm
• Display colors	8 bits interface; 16M colors (dithering)

Touch panel

- 12-bit A/D converter ; 100 samples per second

http://www.wjel.net

Specification

Scanning

- Vertical refresh rate 56~76 Hz
- Horizontal frequency 30~61 KHz

Video

- Video dot rate 80 MHz
- Input impedance
  - video 75 ohm
  - Sync 2K ohm
- Input signal levels 0.7 Vpp
- Sync input signal Separate sync
  Composite sync
  Sync on green
- Sync polarities Positive and negative
- Video interface
  - Dual input Both Analog (D-Sub) and DVI-D (Digital only) are available and user selectable

Panel optical characteristics

- Contrast ratio 250 (typ.)
- Brightness 200 cd/m2 (typ.); 170 cd/m2 (with touch panel)
- White chromaticity x: 0.281 y: 0.311 (at 9300°K)
  x: 0.312 y: 0.338 (at 6500°K)
- Viewing angle (C/R >5) Upper 30°(typ.)
  Lower 60°(typ.)
  Left 50°(typ.)
  Right 50°(typ.)
- Response time ≤35 ms (typ.)

Resolution & preset modes

- 1024x768 at 60Hz
- 14 user definable modes
- 14 factory preset modes:

	H.freq (KHz)	V.freq (Hz)
640 x 350	31.5	70
720 x 400	31.5	70
640 x 480	31.5	60
640 x 480	35.0	67
640 x 480	37.8	73
640 x 480	37.5	75
800 x 600	35.2	56
800 x 600	37.9	60

http://www.wjel.net

800 x 600	48.0	72
800 x 600	46.9	75
832 x 624	49.7	75
1024 x 768	48.4	60
1024 x 768	56.5	70
1024 x 768	60.0	75

(Interlace mode is not applicable)

Power management

Complies with EPA Energy Star and E2000 specifications

• Display on Base station :	Typical operation	20W (typical)*
	Sleep mode	7W
• Display is off Base station	on line	10W (typical)*
	off line	9W
	Sleep mode	0.4W

Buttons and controls

• On display	Power on/off	- slide switch
	Brightness	- VR dial
	Volume	- VR dial
	Dashboard	- launch button
	Input panel	- launch button
	Hardware reset	- push button
	Software reset	- push button
	R/F keyboard reset	- push button
• On Base station (OSD)	OK	- Tact Switch
	Auto	- Tact Switch
	Up/Down	- Tact Switch
	Left / Right	- Tact Switch

I/O

• On display	Antenna
	VGA (mini jack) out
	USB; type A (*2 ; for K/B; M/S)
	Headphone jack
	19V DC-in jack
	Base station connector
	Dual integral stereo 16 bit AC 97 2.0 compliant speaker*2 (2.0W)
• On Base station	19V DC-in jack

http://www.wjel.net

DVI-D (digital)
15-pin Dsub (analog)
USB type B
USB; type A (*2 ; for K/B; M/S)
Audio-in
Audio-out

LED indicator

- On display

Power LED
Off: power off
Solid green: power on, battery okay, or AC power on & battery charged
Blinking green: AC power on & battery is charging
Solid yellow: power on, battery low
Blinking yellow: power on, battery critical low

Wireless LAN LED
Off: no RF signal / no LAN connection
Solid green: good signal level
Solid yellow: poor signal level

- On Base station

Off : Display is not on the Base station
Solid green : Display is on the Base station
Solid yellow : Display is on the suspend mode

Accessories

- Default

• Battery - Internal removable battery pack (6-cells) with smart Li-ion battery, up to 4 hours battery life.

• AC-Adapter- AC 90V~ 265V, 47~63Hz input, 19V DC, 3.16A output, 60W
• Stylus *2
• Base station
• USB B to A cable
• VGA cable
• Mini VGA cable
• Audio cable
• USB Wireless network adaptor

- Optional

• RF Key board (88 Keys) with Touch Pad

http://www.vjet.net

- Extra AC adapter
- Stylus 3-pack
- Extended battery

Regulatory approvals

- TUV
- FCC-B, UL, CSA
- SEMKO
- CE Mark
- E2000, Energy Star
- USB Logo
- Microsoft Windows XP Pro LOGO
- Microsoft Windows CE for Smart Displays LOGO

Physical specifications

• Display dimension (WxHxD)	375 x 309 x 28.5 mm (min. height)
• Base station dimension (W*H*D)	200 x 205x227 mm
• Tilt	-3°~25°
• Display weight	2.4 Kg
• Base station weight	2.2 Kg
• Temperature (operating)	+5°C to +35°C
• Temperature (storage)	-20°C to +60°C
• Relative humidity	20% to 80%

We recommend using 1024 x 768 at 60Hz non-interlaced mode for the best picture quality
As an Energy Star partner, Philips has determined that this product meets the Energy Star guidelines for energy efficiency.

* Resolution 1024x 768, standard size, contrast max., brightness max, 9300°K, full white pattern.

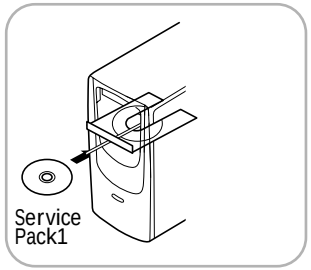
http://www.wjel.net

Getting Started (A Complete Start Guide)

Installing Windows XP Service Pack 1

DesXcape runs on Microsoft Windows XP Professional Edition with Service Pack 1. If you have not yet installed Windows XP Service Pack 1 (or higher) on your computer, please follow this step. If you already have most recent Windows XP Service Pack installed on your computer, please skip this step and go to the next Hardware Setup section.

To check if you have Windows XP Service Pack 1 installed, right-click on My Computer, choose Properties, General. If you do not see Service Pack information is displayed, you do not have Service Pack installed.



To install Windows XP Service Pack 1

1. Put the Windows XP Service Pack 1 CD into CD-ROM drive
2. Run XPSP1.exe from CD-ROM drive and Service Pack 1 is automatically installed.
   *Alternative: Open the **Start menu**. Choose **My Computer** and double-click on **XPSP1.exe** icon on your CD-ROM drive.*

If you experience problems while installing the Microsoft Windows XP Service Pack 1, please go to the Microsoft website for additional information or contact your computer vendor.

Hardware Setup

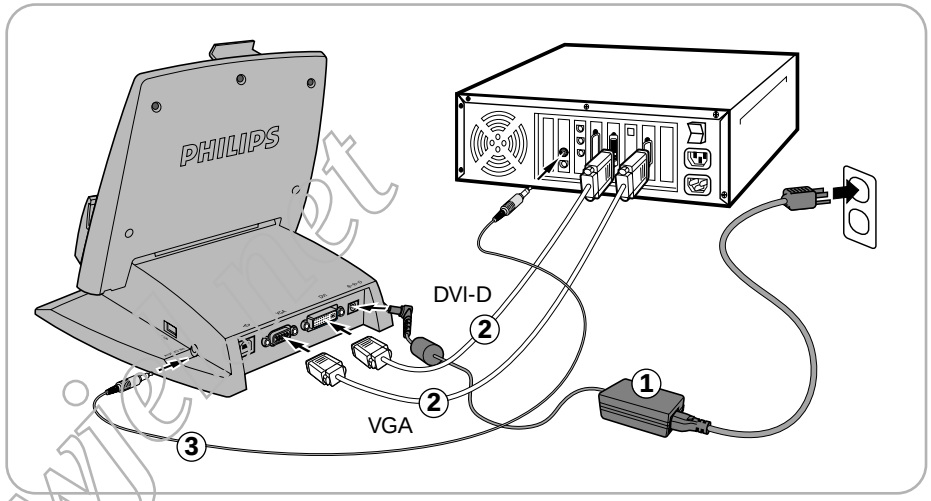
Cable Setup

In this section, you will set up the initial hardware environment for your DesXcape 150DM.

1. Connect the power cord to the AC power adaptor, plug it into the base station and then into a power outlet.
2. If you plan to use DesXcape 150DM as your desktop monitor, make sure your computer is running a resolution of 1024 x 768 or lower. **Plug the VGA cable into the base station and then into your computer.**

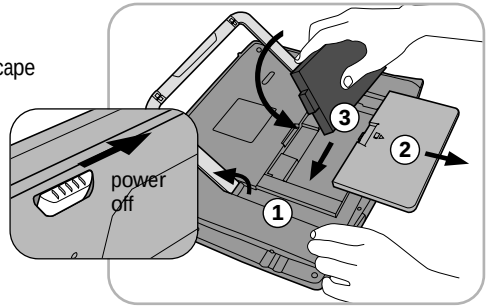
   *To check and adjust the resolution of your computer, right-click on your Windows Desktop. Screen Resolution is located under **Properties, Settings**. For additional information about your computer's resolution, please contact your computer vendor.*

   For users with DVI-D video interface, instead of using the included VGA cable, plug your own DVI-D cable to the DVI-D port on the base station.
3. If you want to use the audio output on your base station for speakers or a headset, plug the included audio cable into the **audio in** port on your base station, and then into the **audio out** port on your computer.



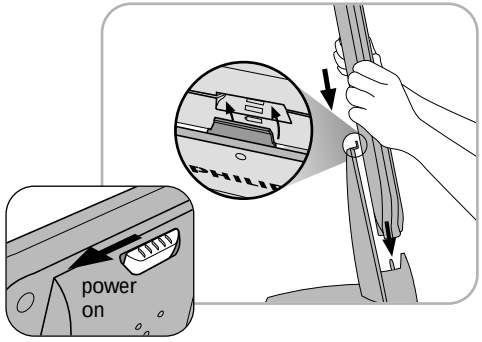
Load Battery

1. Make sure the power switch of your DesXcape 150DM is in the power-off position.
2. Install the battery into DesXcape 150DM, and you will see the startup screen for a few seconds before it goes off.



Get Ready

1. Place DesXcape 150DM on the base station
2. Power on your computer
3. Power on DesXcape 150DM



Additional Hardware Setup

During the setup process, on screen prompts will let you know when it is time to install additional hardware.

http://www.wje.net

Software Setup

This section will guide you through software installation and additional hardware setup procedures for your DesXcape 150DM.

Insert DesXcape 150DM Setup CD into your computer's CD-ROM drive. The Setup Wizard will start automatically.

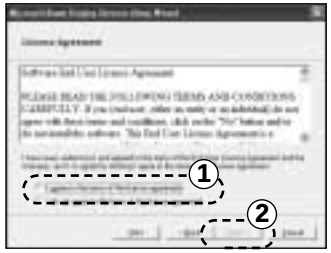
If the Setup Wizard does not start automatically, you can start it manually by opening Setup.exe from your CD-ROM drive. Select your CD-ROM drive by opening the Start menu and then choosing My Computer.

Smart Display Services Setup

Below are the sequence of screens and an explanation for each screen.

Step 1: Welcome to Smart Display Services Setup Wizard

Click **Next** to continue.



Step 2: License Agreement

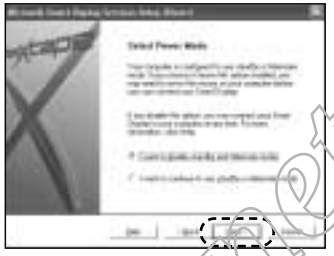
Click on the **I agree to the terms of the license agreement** box and then **Next**.

If you do not agree to the terms of the license agreement, the setup program will end and software for DesXcape 150DM will not be installed on your computer.

Step 3: Enable Remote Desktop

If your computer has already been set to enable Remote Desktop, this screen will not be displayed.

Click **Next** to continue.



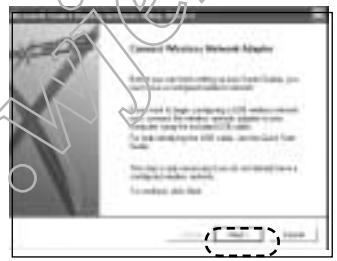
Step 4: Select Power Mode

Click **Next** to continue.

It is highly recommended that you select "I want to disable standby and hibernate mode" for best experience.

Step 5: DesXcape 150DM Driver Installation

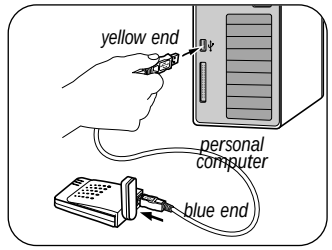
Click **Next** to continue.



Step 6: Connect Wireless Network Adaptor

Connect Philips wireless network adaptor to your computer by connecting the blue end of the included USB cable to the Philips wireless network adaptor's blue socket. Then connect the yellow end of the USB cable directly to your computer's USB port.

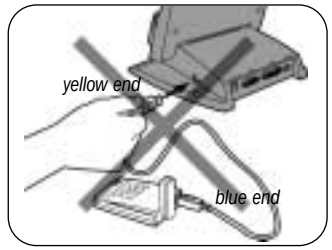
*(Note: **DO NOT** connect the yellow end to the base station.)*



Follow and complete the **Found New Hardware Wizard** if it pops up.

Ignore and cancel the **Network Setup Wizard** if it pops up.

Click **Next** to continue.

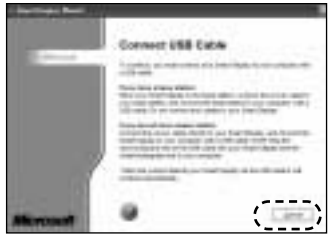


Step 7: Smart Display Services Installed

Click **Next** to continue.

http://www.vjel.net

Getting Started (A Complete Start Guide)



Step 8: Connect USB Cable

Connect the red end of the included USB cable to the base station's red socket. Next, connect the yellow end of the USB cable to your computer's USB port.

*Note: **DO NOT** connect the yellow end back to the BASE STATION.*

Follow and complete all **Found New Hardware Wizards** if any pop up.

Wait for a few moments before the computer recognizes DesXcape 150DM and shows the Next button.

Click **Next** to continue.

Step 9: Smart Display Setup Wizard

Click **Next** to continue.

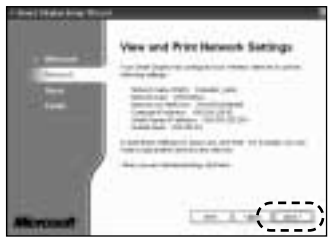
- *Click **Manual** only if you are an advanced user with special needs*

Step 10: Use Existing Wireless Hardware?

DesXcape 150DM comes with a wireless network adaptor for the computer.

Click **Next** to continue

*If you have a local wireless network already set up, you can use that network by selecting the **Use the wireless network hardware I had prior to purchasing my Smart Display** check box. With this option, you will skip Step 11.*



Step 11: View and Print Network Settings

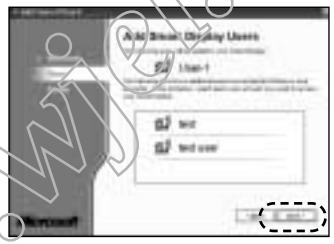
When you have printed this page, click **Next** to continue.

***Note:** None of the information on the **View and Print Network Settings** page is saved on your computer. Since you may need this information – especially the Network (or WEP) key later, it is a good idea to print this wizard page for future reference.*

Step 12: Welcome to the Add Users Wizard

Each DesXcape 150DM user must have a unique user account on the host computer and a unique connection configuration, known as a user connection, on the DesXcape 150DM. Each DesXcape 150DM user logs on to the computer by selecting his or her user name from the DesXcape 150DM Dashboard.

Click **Next** to continue with the wizard.



Step 13: Add Smart Display Users

The wizard lists the users who are eligible to be added. Select required users and click **Next**.

Step 14: Completing the Add Users Wizard

Click **Finish**.

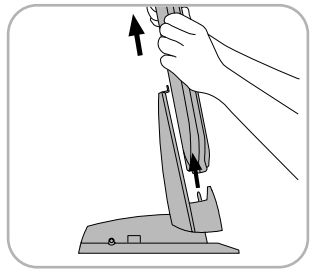
Now you have completed the entire DesXcape 150DM setup process and will be returned to your Windows desktop. Now let's start unleashing the power of DesXcape 150DM by learning through First-timer Tutorial!

First-timer Tutorial

Detach from Base Station

To detach your DesXcape 150DM from its base station, please refer to the illustration.

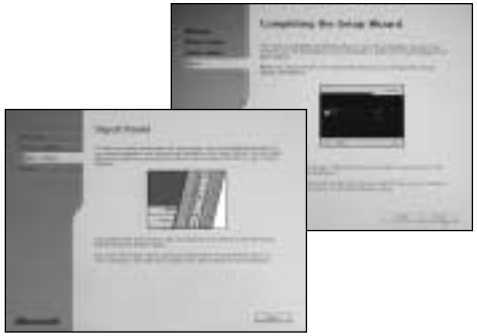
***Note:** In order to conserve battery power, your DesXcape 150DM may turn off the system after certain period of inactivity. When this happens, the power switch remains in the **ON** position. To turn on your DesXcape 150DM under such circumstances, slide the power switch to the **OFF** position and then back to **ON** position.*



http://www.wjl.net

Getting Started (A Complete Start Guide)

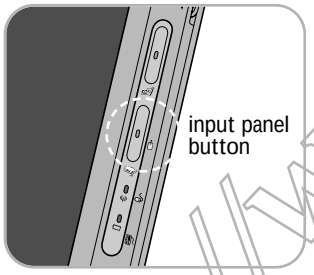
On-Screen Tutorial



When you detach your DesXcape 150DM from its base station for the first time after setup, you are likely to see the following two pages on your DesXcape 150DM screen. These pages serve as an initial tutorial for DesXcape 150DM. The on screen tutorial is only displayed when DesXcape 150DM is first detached and will not appear again. Please read through the screen and feel free to refer back to this section for more information.

In the event the on screen tutorial does not appear, this section covers its content and provides additional information.

Input Panel

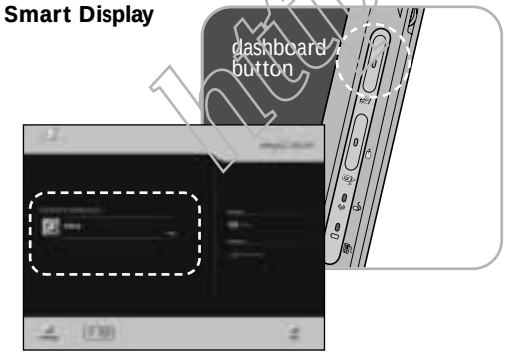


The **Input Panel** is an on-screen keyboard and writing pad that simplifies the task of entering text using a stylus. To display the Input Panel, press the **Input Panel** hardware button on your DesXcape 150DM.

To hide it, press the button again. This is a good time to tap on the different functions on the toolbar to see how they work.

More information about how to use and configure the **Input Panel** will be provided during the interactive Smart Display Tutorial program and be found in **Microsoft Help and Support** on your computer. Open the **Start menu**, **Help and Support**, **Hardware**, and then **Windows Powered Smart Display**. Look for information in the **Smart Display Input Panel**.

Dashboard



The Dashboard is the screen you see on your DesXcape 150DM when you detach it from the base station before connecting it to your computer. You can access the Dashboard at any time by pressing the Dashboard hardware button on your DesXcape 150DM.

The left column of the Dashboard lists the connections that you have created and allows you to connect to the computer with the same user name by simply selecting the connection name.

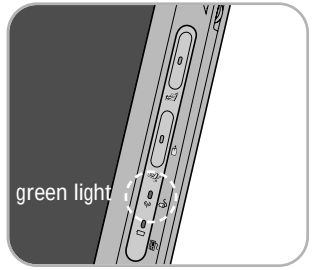
The right column shows your battery charge level and your network signal strength level. The battery level indicator graphically illustrates the battery charge level and changes when the battery is plugged into AC power and charging. Signal strength indicates how well your DesXcape 150DM receives the wireless signals from your computer.

More information about how to use and configure the settings from Dashboard can be found from **Microsoft Help and Support** on your computer. Open the **Start menu**, **Help and Support, Hardware**, and then **Windows Powered Smart Display**. Look for information under **Smart Display** settings.

*Click **Next** and you will see the Dashboard page.*

As noted above, the tutorial is only displayed the first time DesXcape is detached from its base station. After that, the Dashboard is the first page you see before logging on to your computer when you detach your DesXcape 150DM from its base station.

Connect to your computer



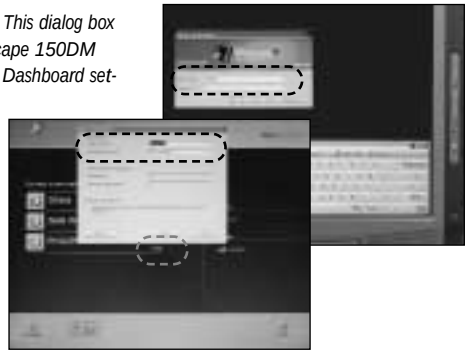
To connect to your computer, follow these steps:

1. Turn on your DesXcape 150DM and detach it from the base station.

   After turning on your DesXcape 150DM, you may have to wait a few seconds for it to detect your network. From the Dashboard, be sure the network signal strength is good. When the signal strength is good, the network indicator light is green

2. Click on the user name with which you want to connect.

   *A **Logon** dialog box appears with the user name listed. This dialog box does not appear if you have chosen to have your DesXcape 150DM remember the password for your user connection in the Dashboard settings. To have your DesXcape 150DM remember the password, tap the edit box **Edit** next to the selected user name in the Dashboard, check the box for **Remember password**, enter the password for the selected user name and click **OK**. For more information about Dashboard settings, open the Start menu and select **Help and Support**, **Hardware**, and **Windows Powered Smart Display**. Look for information under Smart Display settings.*



http://www.wiki.net

Getting Started (A Complete Start Guide)

3 If the Logon dialog box appears, push the Input Panel button to display the on-screen keyboard, enter the password, and then choose OK. The Windows desktop of your computer appears.

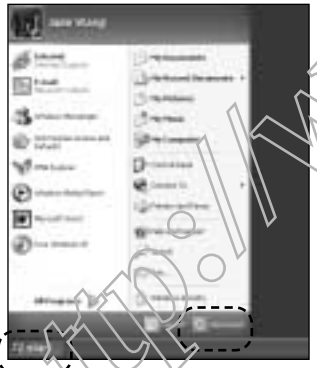
When you connect your DesXcape 150DM to your computer, you will see your computer's desktop with your icons. By default, you will not see your desktop wallpaper; instead, your desktop will be a solid color. However, you can choose to display your desktop wallpaper by tapping ***Settings*** *on Dashboard and check the box for* ***Display computer's wallpaper****. Note:Wallpaper display can slow performance.*

Disconnect from your computer

When you have finished using your DesXcape 150DM, you have two options for ending the communication link between your DesXcape 150DM and your computer: disconnect or log off.

Disconnect option: If you choose to disconnect, you will still be logged in to your computer, and your applications will continue to run, but your computer will no longer be visible through your DesXcape 150DM. When you next log on either from your DesXcape 150DM or while sitting at your computer, the desktop will show that all active applications remain active.

Log off option: If you choose to log off from your DesXcape 150DM, your applications will shut down, your desktop settings will be saved, and the connection between your DesXcape 150DM and your computer will close. The next time you log on, either from your DesXcape 150DM or computer, you will need to launch any applications you want to use.



To disconnect from your computer, you can use either of the following procedures.

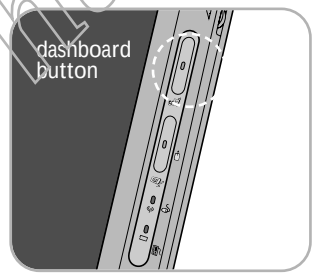
1 Choose **Start** and then choose **Disconnect.**
A message appears asking you to confirm that you want to disconnect.

2 Choose **Disconnect**. To stay connected, choose **Cancel**.

— **or** —

1 Press the hardware button for the **Dashboard**.
A message appears warning you that you are about to be disconnected.

2 Choose **OK**.



To log off from your computer:

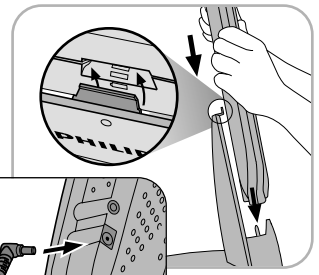
1 Choose **Start**, and then choose **Log Off**.
A message appears asking you to confirm that you want to log off.

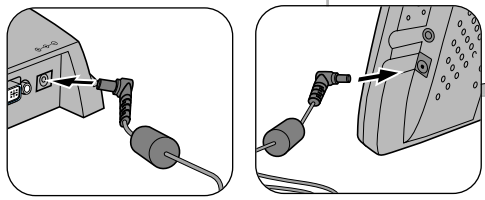
2 Choose **Log Off** to log off and disconnect from your computer. To remain logged-on and to stay connected, choose **Cancel**.

Place back into base station

Please refer to the illustration to place your DesXcape 150DM to the base station.

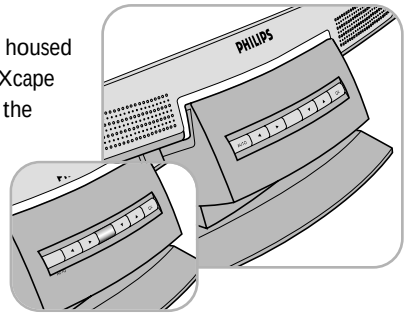
DesXcape 150DM's battery is charged when it is placed in the base station. Usually it takes less than one hour and half to charge an empty battery to 80% of its full capacity. To charge DesXcape away from its base station, connect the AC power adaptor directly to your DesXcape 150DM.





http://www.wiel.net

Base station function



The base station works only when DesXcape 150DM is housed in it. The base station turns off automatically when DesXcape 150DM is powered off or detached. A light indicator at the front shows whether or not the base station is active.

It is highly recommended that you connect to the base station only devices that you do not plan to use while DesXcape 150DM is away from its base station. Use the base station to connect devices like keyboards, mouse, speakers, and microphones that are only used when DesXcape 150DM is housed in its base station. If you plan to use a device while DesXcape 150DM is away from the base station in its mobile mode, connect it directly to your computer or to a USB hub.

Important: Do not connect the wireless network adaptor to the base station. If the wireless network adaptor is connected to the base station, it **cannot** communicate with your DesXcape 150DM while it is away.

Your base station is tilt-adjustable. Adjust it according to your preferred viewing angle when DesXcape 150DM is on its base station.

Base station interfaces: *(PLEASE REFER TO THE PAGE 6 FOR DETAIL.)*

1. **OSD buttons:** Activate an On-Screen Display menu for adjusting your display performance when DesXcape 150DM is housed in its base station.
2. **Audio in:** Receives sound from your computer. When connected to your computer with an audio cable, DesXcape 150DM speakers on become your computer speakers when DesXcape 150DM is housed in its base station.
   Important:** This plug is only for use with an audio cable connecting the base station and your computer. **it is not suitable for use with a microphone.
3. **Audio out:** Output the sound coming from your computer to external speakers or a headset.
4. **VGA/DVI-D:** Receives video image signals from your computer.
5. **USB** (type A)**:** Supports all USB devices when DesXcape 150DM is on the base station as a desktop monitor. **Remember: Base station USB ports are active only when DesXcape 150DM is housed in its base station.**
6. **USB** (type B)**:** Transfers non-video signals between the base station and your computer.
7. **DC in:** Provides power to charge the DesXcape 150DM when it is housed in its base station.
8. **DesXcape 150DM connector:** Transmits signals between the base station and DesXcape 150DM.
9. **DesXcape 150DM latch:** Secures DesXcape 150DM when it housed in the base station.

DesXcape 150DM as Wireless Monitor

Automatic wireless reconnection

When you move out of the wireless operating range of your DesXcape 150DM, it loses the ability to establish a connection to your computer. If you move out of the wireless operating range when you have already established a connection to your computer, the system will automatically try to re-establish the connection to keep your experience uninterrupted. DesXcape 150DM will return to Dashboard after failing to re-establish the previous connection several times.

Battery and Power status

When you detach DesXcape 150DM from the base station and do not have AC adaptor connected to it, DesXcape 150DM operates on battery power. Battery status is shown on the Dashboard when you are not connected to a computer or on the Smart Display Notification icon when you are connected to a computer.

When your DesXcape 150DM is on and battery level is low, the battery indicator will turn into yellow and start blinking. If this occurs, please recharge your DesXcape 150DM immediately.

Your DesXcape 150DM continues to consume some power when its power is off. For this reason, we strongly recommend that you place your DesXcape 150DM back in base station for recharge when not in use or recharge it with the direct AC power adaptor at regular intervals.

If DesXcape 150DM's battery is completely depleted, all the setting on your DesXcape 150DM might be lost even after you recharge the battery. In this case, please refer to the **Quick Troubleshooting** section in this manual.

For additional information regarding battery and power status, go to **Microsoft Help and Support Center**. Click **Start menu**, **Help and Support**, **Hardware**, and look under **Windows Powered Smart Display**. Alternatively, search for **Smart Display** in **Microsoft Help and Support Center**.

http://www.vip.net

DesXcape 150DM as Desktop Monitor

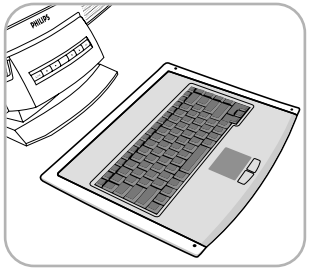
Analog and Digital video input

When you have different video signal coming from the VGA port and the DVI-D port, the signal from DVI-D port is automatically chosen as the preferred signal for video display. You may choose to display the video signal from VGA port by using **INPUT SELECTION** from the OSD menu. For more information about the OSD menu, please refer to OSD functions in the **Optimize and Customize** chapter.

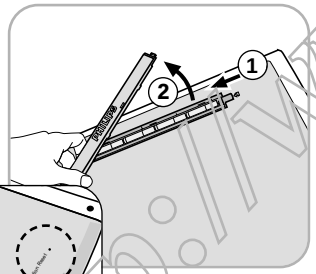
Working with an optional wireless keyboard

Setting up Wireless Keyboard

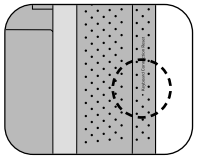
The optional Philips DesXcape 150DM wireless keyboard gives you the benefits of an additional input tool that complements DesXcape 150DM's built in on screen keyboard. The Wireless Keyboard uses a built-in radio frequency module to communicate directly to your DesXcape 150DM. In order to complement – not interfere with – your DesXcape experience, keyboard frequency is different than the frequency employed by DesXcape 150DM to communicate the host computer.



With your DesXcape 150DM nearby, open the battery cap and load 4 AAA size batteries into the wireless keyboard. After batteries are inserted, the keyboard automatically searches for DesXcape 150DM and, in a few seconds, configures itself to work with DesXcape 150DM.



On rare occasions when the automatic configuration process doesn't connect, restart the search process by pressing the Connection Reset button on the front panel of the keyboard and then Keyboard Connection Reset button on the left-hand rear of your DesXcape 150DM. Both your DesXcape 150DM and the keyboard will try to find each other and automatically configure themselves.

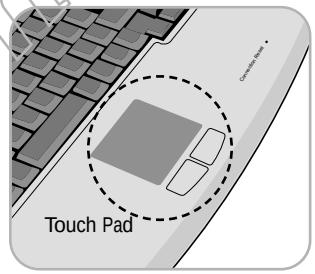


on DesXcape 150DM

on Wireless Keyboard

Using Wireless Keyboard

The Wireless Keyboard functions exactly like a normal keyboard. A touch pad below the keypad allows you to draw lines or point to items on the Windows desktop. The left touch pad button functions like left clicking a mouse and the right touch pad button functions like right clicking a mouse.



Other DesXcape 150DM function

Here is a functional list of components and interfaces on the DesXcape 150DM:

(PLEASE REFER TO PAGE 5 FOR DETAILS)

1. **Brightness adjusting wheel:** Scrolls up or down to adjust LCD screen brightness.
2. **Volume adjusting wheel:** Scrolls up or down to adjust DesXcape 150DM speaker volume.
3. **DC-in:** Connects to the plug from AC power adaptor for directly charging your DesXcape 150DM when it is not housed in its base station.
4. **Speaker:** Outputs DesXcape 150DM sound.
5. **Headphone jack:** Outputs DesXcape 150DM sound to your headphones.
6. **USB:** Supports additional USB keyboard or mouse devices.
7. **Mini-VGA out:** Outputs DesXcape 150DM video images to your projector.
8. **Kensington lock slot:** Supports Kensington type lock

Optimize and Customize

DesXcape 150DM as Wireless Monitor

Optimize wireless signal strength

Here is a quick summary of ways you can optimize your wireless signal strength:

- Keep as few things as possible between your DesXcape 150DM and the wireless network adaptor. Large metal objects are especially prone to creating signal degradation.
- Avoid working in the vicinity of interference creating devices such as 2.4GHz cordless phones, microwave ovens and Bluetooth devices.
- Adjust the antenna direction of the wireless network adaptor so its horizontal plane covers places you are most likely to use DesXcape 150DM.

Optimize wireless display performance

When it is on the base station, DesXcape 150DM supports all PC applications. When it is detached from the base station, most applications run flawlessly. However, at times there are few exceptions.

Sometimes Internet streaming audio and video may not run smoothly on DesXcape 150DM in its wireless mode. This is most likely due to poor wireless signal quality, large video screen size, or too many applications running at the same time. Please take the steps listed above in **Optimize wireless signal strength** to improve wireless signal quality, adjust the video screen size and close unnecessary applications to enhance your wireless experience.

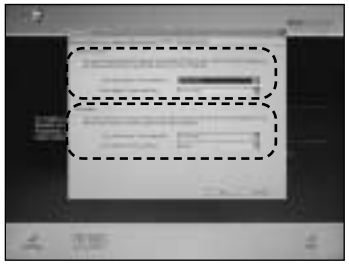
Note: *Due to wireless bandwidth limitations and special hardware requirements, DesXcape 150DM does not support full screen motion pictures or 3D games.*

http://www.vieuwer

Power-saving settings on your DesXcape 150DM

Set your DesXcape 150DM power-saving functions by clicking the Dashboard's **Settings** button on Dashboard and choosing **Power**.

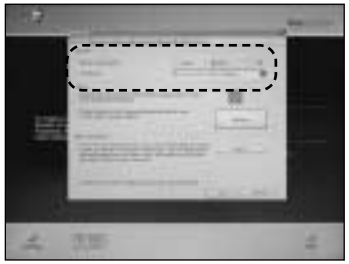
You may configure different settings here for your DesXcape 150DM depending whether it is running on battery power or AC power.



Sound settings on your DesXcape 150DM

Configure your DesXcape 150DM sound settings by clicking the Dashboard's **Settings** button on Dashboard and looking under the tab **General**.

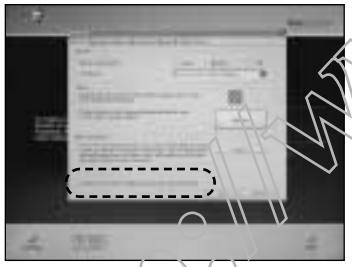
You may turn your DesXcape 150DM into a remote controller and your PC into a jukebox to play music by choosing to leave sound on computer, or change your stylus tap volume here.



Show desktop Wallpaper

By default, you will not see your desktop wallpaper when you connect your DesXcape 150DM to your computer; instead, your desktop will be a solid color.

You can choose to display your desktop wallpaper by tapping Settings on Dashboard, look under the tab General, and check the box for Display computer's wallpaper.



Add new users on your DesXcape 150DM

To add new DesXcape 150DM users, launch the **Add User Wizard** on your computer.

*(Click **Start menu**, **All Programs**, **Microsoft Smart Display Services** and then Add User Wizard.)*

Reconfigure the DesXcape 150DM wireless network

You can reconfigure your DesXcape 150DM wireless network settings to make it work again with a changed home wireless network environment.

Here's how:

1. Launch **Connection Troubleshooter** on your computer and follow the instructions. Click **Start menu**, **All Programs**, **Microsoft Smart Display Services** and then **Connection Troubleshooter**.

— Or —,

2. Go to **Microsoft Help and Support** on your computer to find information about DesXcape manual setup. Click **Start menu**, **Help and Support**, **Hardware** and look under **Windows Powered Smart Display**. Alternatively, search for **Smart Display** in the **Microsoft Help and Support Center**.

Access to multiple computers

To use one DesXcape 150DM to access more than one computer, you need to have all the computers running Windows XP professional edition with Service Pack 1 with the DesXcape 150DM Setup CD installed. Then you can set your DesXcape 150DM and all the computers you plan to logon to work on the same wireless network. After that, you can use the Add User Wizard on each computer to create user connections to each computer or manually create user connections.

For more information about setting up your DesXcape wireless network manually and creating user connections manually, go to **Microsoft Help and Support** on your computer. Click **Start menu**, **Help and Support, Hardware and look under Windows Powered Smart Display**. Alternatively, search for **Smart Display** in the **Microsoft Help and Support Center**.

DesXcape 150DM as Desktop Monitor

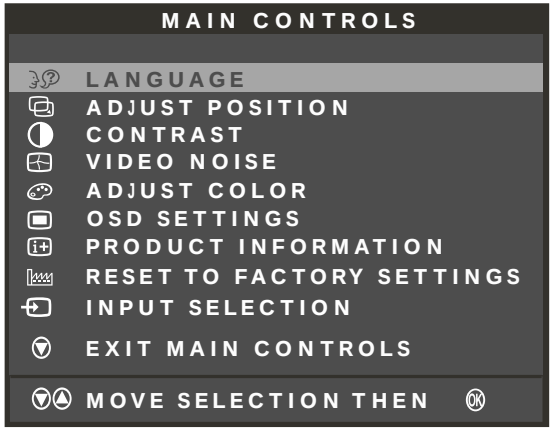
OSD functions

DesXcape 150DM has an On-Screen-Display (OSD) function that enables users to adjust the display performance of DesXcape 150DM when it is on the base station.
The Main page appears when you push the OSD button OK.

http://www.vietnet

Here is the description of the adjustment items:

1 LANGUAGE
Sets the OSD to display in one of six languages English, Español, Français, Deutsch, Italiano, Japanese.



2 CONTRAST
Adjusts screen contrast.

3 ADJUST POSITION
Adjusts monitor screen horizontal or vertical viewing area.

4 VIDEO NOISE
Adjusts display clarity by changing Phase and Clock values.

5 ADJUST COLOR
Four different color temperatures are available.
a. 9300K
b. 6500K
c. ORIGINAL PANEL COLOR
d. USER PRESET (Setting the color by user's preference.)

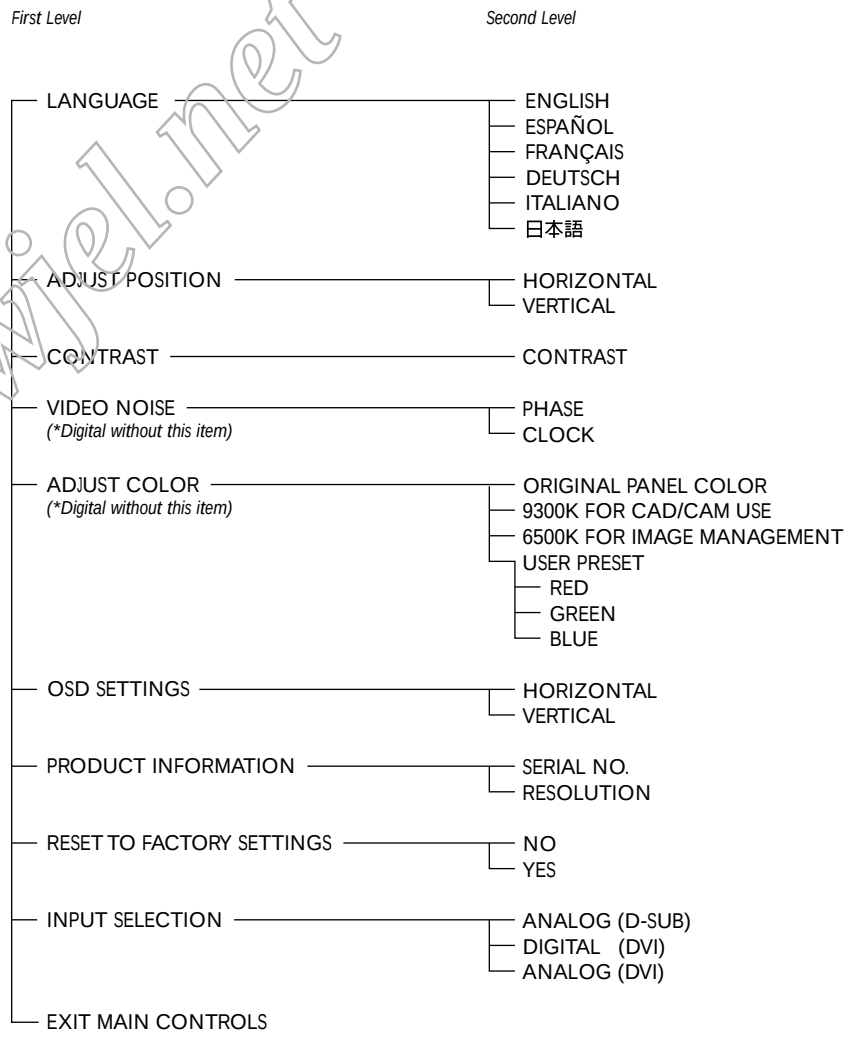
6 OSD SETTINGS
Sets the location where the OSD screen appears.

7 PRODUCT INFORMATION
Displays product information including serial number, resolution and video input status.

8 INPUT SELECTION
Selects Analog (VGA port) or Digital (DVI-D port) video input signal.

Here is the whole OSD function structure:

OSD Tree (For Analog /Digital Input)



• Specifications are subject to change without prior notice.

http://www.wiel.net

Warning Message

Go to cover page

Warning Message(WM) Table:

Item	Attention Signals	Display Time	Condition
1	Entering sleep mode		Re-docking PAD & Cradle
2	Check Cable Connection		No cable connected
3	This is xxHz overdriver Change Comprter Display in out of range		Signal is out of range

http://www.wjel.net

Troubleshooting

You can find answers to the following questions here:

Before Setup
Q1: How do I check and configure the different properties on my computer before set up?
Q2: What if I only have one USB port available?

During Hardware Setup
Q3: Where is the packing list?
Q4: Where is the power switch?
Q5: Why doesn't the screen light up when I power it on?
Q6: What should I do with unused hardware components?

During Software Setup
Q7: What should I do with the Welcome to the Found New Hardware Wizard?
Q8: Nothing happens after Connect USB Cable page
Q9: What does Use Existing Wireless Hardware mean?
Q10: What does it mean to Select Your Wireless Network?
Q11: What should I do if I abort the setup process abnormally?

During Use
Q12: How to do keyboard input?
Q13: I see a CHECK CABLE CONNECTION screen!
Q14 My wallpaper doesn't show up!
Q15: The screen is off when the power is still on!
Q16: The screen shows a Welcome page when I turn it on!
Q17: I cannot logon to my computer when I turn it on!
Q18: I cannot watch the video playback from my computer!
Q19: The USB ports on the base station are not working!
Q20: The speakers are not working when DesXcape 150DM is in its base station!
Q21: My DesXcape wireless keyboard stops working!
Q22: Where can I get more information

http://www.wjel.net

Q1: How do I check and configure the different properties on my computer before set up?
Look up the Getting Started (A Complete Start Guide) chapter of this User's Manual. There are detailed explanations on how you can check and configure your computer.

Q2: What if I only have one USB port available on my computer?
The two unused USB ports are reserved for the USB wireless network adaptor and the base station. If you have only one USB port available, the following options (and corresponding limitations) are available:

- Use a self-powered USB hub to expand the number of available USB ports. Or,
- Move other USB devices to the base station. (Note: such devices will become inactive when DesXcape 150DM is not housed in the base station.) Or,
- Use your existing wireless network adaptor or wireless access point instead of the USB wireless net-

work adaptor. However, this requires that you have the specialized knowledge to set up the wireless network for DesXcape 150DM manually during setup process.

Q 3: Where is the packing list?
A quick packing list is available on Quick Start Guide. A more complete packing list is available at the Getting Started (A Complete Start Guide) chapter of this User's Manual.

Q 4: Where is the power switch?
The power switch is located at the upper right corner behind the screen.

Q 5: Why doesn't the screen light up when I power it on?
There are two possible reasons: 1) You are using DesXcape 150DM on battery power and there is no power in the battery. Solution: Use your AC power adaptor and/or base station to recharge batteries. 2) The device entered the Standby mode, automatically turning the screen off. Solution: Turn the power switch off and then on again to turn on the screen.

Q 6: What should I do with unused hardware components?
The wireless network adaptor and USB cables will be installed and used during software setup process following on screen instructions. Store the unused stylus, mini-VGA cable, and/or audio cable in a safe place for future use.

Q 7: What should I do with the Welcome to the Found New Hardware Wizard?
Follow the recommended approach (Install the software automatically) and finish the process before you proceed further. Please note that there may be more than one device found when you connect the USB cable from the base station to the computer. Wait for the computer to recognize each device and install appropriate drivers for each before you proceed.

Q 8: Nothing happens after Connect USB Cable page!
Make sure that: 1) You have connected the USB cable correctly; 2) Your DesXcape 150DM is powered-on and placed on the base station; and 3)The computer has finished all Found New Hardware processes. Sometimes the Found New Hardware wizard is hidden behind other windows. Also, you might have to wait for a few seconds for the computer to recognize your DesXcape 150DM and locate the drivers for it. Another possibility: DesXcape 150DM related hardware devices are not properly installed. To check installation, right-click on My Computer. Choose Properties, Hardware and then Device Manager. To fix problem devices, right-click on devices with an exclamation mark and choose update driver. Follow all screen prompts to complete the process.

Q 9: What does Use Existing Wireless Hardware mean?
DesXcape 150DM is designed to communicate with your computer through the included wireless net-

http://www.wiel.net

150DM ERROR CODE LIST

Go to cover page

Date: 06/08/2002
By: Kenny # 3145
Other # 3163

Group	Category_Engl	remark
A	Appearance	
C	Cradle	
E	Exterior	
L	LCD	
M	Memechanism & Assembly	
O	Other	
P	Power	
S	System	
V	Voice	

Group	Code	Description
A	A01	Damaged bottom case
	A02	Damaged upper case
	A03	Housing color different
	A04	Lower case painting defect
	A05	Upper case painting defect
	A06	FCC label scratch
	A07	Scroll function button scratch
	A08	IR lens damaged
	A09	

Group	Code	Description
C	C01	Cradle LAN test failed on cradle
	C02	USB port test failed on cradle slot#
	C03	USB port test failed on cradle slot#
	C04	USB port test failed on cradle slot#
	C05	PS2 port test failed on cradle (K/B)
	C06	Cradle LED malfunction

Group	Code	Description
L / LCD	L01	No screen
	L02	LCD incomplete display
	L03	LCD unstable display
	L04	LCD wave form
	L05	Can't re-calibrate
	L06	No graphics video
	L07	Rolling video
	L08	Distorted video
	L09	Wrong/distorted color
	L10	No color-graphics video
	L11	Light dots on LCD
	L12	LCD back light uneven
	L13	LCD flicker
	L14	Line on LCD
	L15	Horizontal line on LCD
	L16	Vertical line on LCD
	L17	LCD broken
	L18	LCD scratch
	L19	Touchpad test failed
	L20	LCD contour line
	L21	LCD have foreign material

Group	Code	Description
E	E01	External keyboard fail (PS2 port)
	E02	External mouse fail (PS2 port)
	E03	PCMCIA slot test failure
	E04	CF slot test failure
	E05	PCMCIA eject button malfunction
	E06	CF eject button malfunction
	E07	IR frames test failed
	E08	CRT incomplete display
	E09	CRT unstable display
	E10	CRT flicker
	E11	

Group	Code	Description
P	P01	Battery charge/discharge failed
	P02	Battery electric power not enough
	P03	Adaptor test failed
	P04	Coin battery test failed
	P05	No power
	P06	Power shut down after power on
	P07	Can't boot from battery
	P08	Power LED malfunction
	P09	Charger LED malfunction
	P10	_

Group	Code	Description
S	S01	System hold
	S02	System hold when down load
	S03	System hold when windows test
	S04	Windows display failed
	S05	Can't research new hardware
	S06	Can't display capacity of power
	S07	Can't on line (internet)
	S08	Memory is not enough

Group	Code	Description
V	V01	No sound
	V02	Sound balance failed (left/right)
	V03	Left and right speaker revert
	V04	Earphone no sound
	V05	Microphone recording test failed
	V06	Earphone noise
	V07	Microphone test recording noise
	V08	Volume control hard to adjust
	V09	Speaker sound play noise
	V10	External microphone test failed
	V11	External microphone recording test failed
	V12	Speaker have sound when plug in earphone
	V13	Speaker sound volume is too small
	V14	Earphone sound volume is too small
	V15	

Group	Code	Description
M	M01	Suspend malfunction
	M02	Enter key malfunction
	M03	Launch key malfunction
	M04	Toggle key malfunction
	M05	Upper key malfunction
	M06	Right key malfunction
	M07	Left key malfunction
	M08	Down key malfunction
	M09	Scroll button malfunction
	M10	Suspend feeling no good
	M11	Enter key feeling no good
	M12	Launch key feeling no good
	M13	Toggle key feeling no good
	M14	Upper key feeling no good
	M15	Right key feeling no good
	M16	Left key feeling no good
	M17	Down key feeling no good
	M18	Scroll button feeling no good
	M19	Upper/Lower case bad assembly
	M20	Screw missing
	M21	Bad thread
	M22	LED filter missing
	M23	Gap uneven
	M24	Battery jack position can't mat
	M25	Lop-side adapter connector
	M26	Earphone jack fail
	M27	Microphone jack fail
	M28	USB jack fail
	M29	VGA connector fail
	M30	RJ45 jack fail
	M31	Cursor shake or shift
	M32	Cable expose
	M33	Reset key malfunction
	M34	No screen after suspend
	M35	Bright of software malfunction

Group	Code	Description
O	O01	System can't boot up
	O02	Burn down
	O03	Contamination particle
	O04	Model not match traveler card
	O05	Traveler card missing
	O06	Burn-in test failed
	O07	Wireless LAN test failure
	O08	Antenna assembly failed
	O09	Button connecting failed
	O10	Other

http://www.wiki.net

Definition of Pixel Defects

Go to cover page

Philips LCD Panel Pixel Defect Policy

Philips strives to deliver the highest quality products. We use some of the industry's most advanced manufacturing processes and practice stringent quality control. However, pixel or sub pixel defects on the TFT LCD panels used in flat panel monitors are sometimes unavoidable. No manufacturer can guarantee that all panels will be free from pixel defects, but Philips guarantees that any monitor with an unacceptable number of defects will be repaired or replaced under warranty. This notice explains the different types of pixel defects and defines acceptable defect levels for each type. In order to qualify for repair or replacement under warranty, the number of pixel defects on a TFT LCD panel must exceed these acceptable levels.

Bright Dot :

Dots(sub-pixels) which appeared brightly in the screen when the LCM displayed with dark pattern.

- R,G or B 1 dot ---------- 2 Max
- Adjacent 2 dots ---------- 1 Max
- Total amount of Bright dots ---------- 2 Max
- Bright dot density ---------- Min. 10mm

Dark Dot :

Dots (sub-pixels) which appeared darkly in the screen when the LCM displayed with bright pattern.

- 1 dot ---------- 4 Max
- Adjacent 2 dots ---------- 1 Max
- Adjacent 3 dots ---------- Not Allowed
- Total amount of Dark dot ---------- 4 Max
- Dark dot density ---------- Min. 10mm

Total amount of Dot Defects ---------- 4 Max. (Combination)

Note : a. Every dot herein means Sub-Pixel(Each Red, Green, or Blue Color)

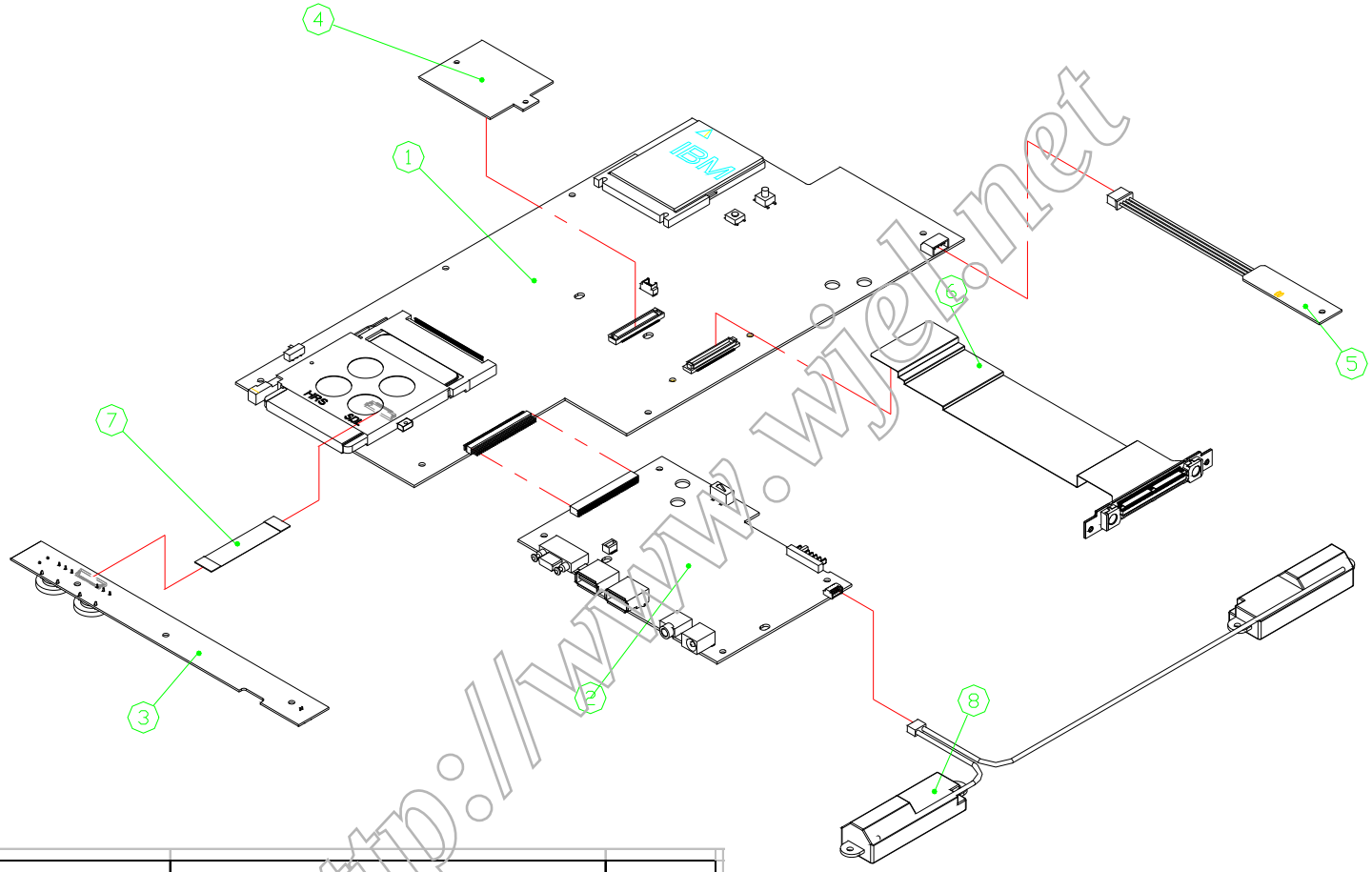
b. Bright dot defect is not seen by 5% ND filter and is damaged less than third size of sub-pixel are not counted as bright dot defect. And dark dot defect is damaged less than half size of sub-pixel is not counted as dark dot defect.

c. Dots darker than half brightness of sub-pixel are not defined as bright dot defect and dots brighter than half brightness of sub-pixel is not defined as dark dot defect.

http://www.wjel.net

Wiring Diagram

Go to cover page



N0			
1	P-PH3KMB+++A2	PCBA FOR PH3000 MAIN BOARD	1
2	P-PH3KPB+++A2	PCBA FOR PH3000 POWER BOARD	1
3	P-PH3KSB+++A2	PCBA FOR PH3000 SWITCH BOARD	1
4	P-MA1KFB+++A1	PCBA FOR MA1000 FLASH/B	1
5	M22-00014-000	WIRELESS KB RECEIVER M67AR002 433MHZ	1
6	M32-00+07-070	FPC CABLE 80P TO 100P PH3000 FOR PAD	1
7	M32-00+07-050	FFC M/B TO S/B 20PIN 0.5MM L=50mm	1
8	M38-00004-000	SPEAKER BOX ASSY/PH3K	1

http://www.wjet.net

Remove battery and battery cover as Fig. 1-3

Fig.1

Remove the battery cover

Fig.2

Remove the battery

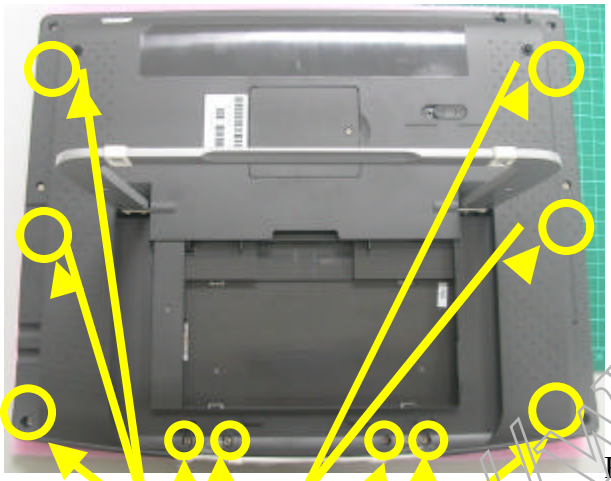


Fig.3

Remove 10 screws to remove the bottom cover

Remove PAD top cover as Fig.4-7

Use thin "I" screwdriver to open

Fig.4

3 Clicks at top side

Fig.5

2 Clicks at left side

http://www.wjel.net

Fig.6

2 Clicks at right side

Fig.7

2 Clicks at bottom side

Remove LCD and frame as Fig.8-14

Fig.8

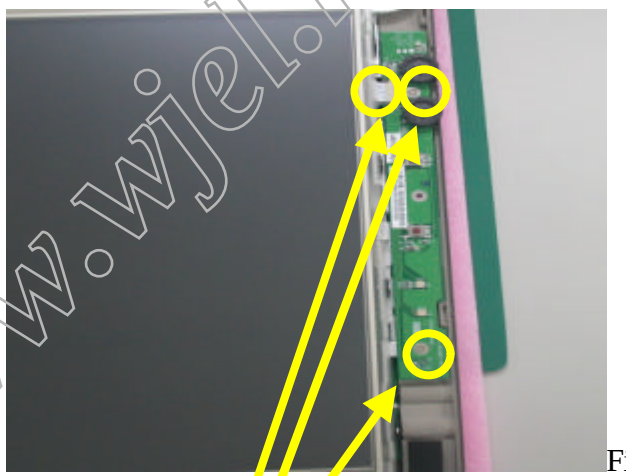


Fig.9

Remove 2 screws and M/B to S/B FPC

Fig.10

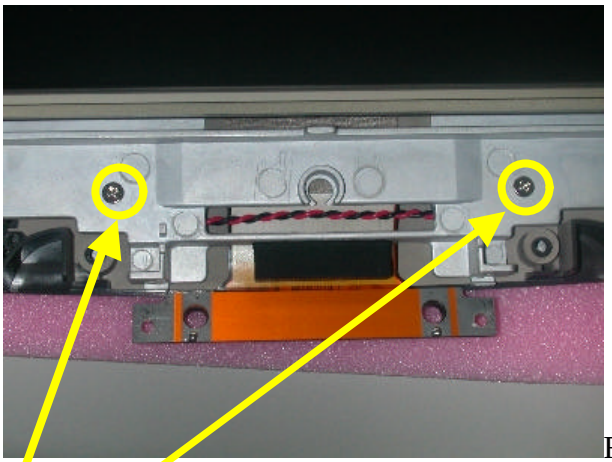


Fig.11

Remove 5 screws on the frame

http://www.wjel.net

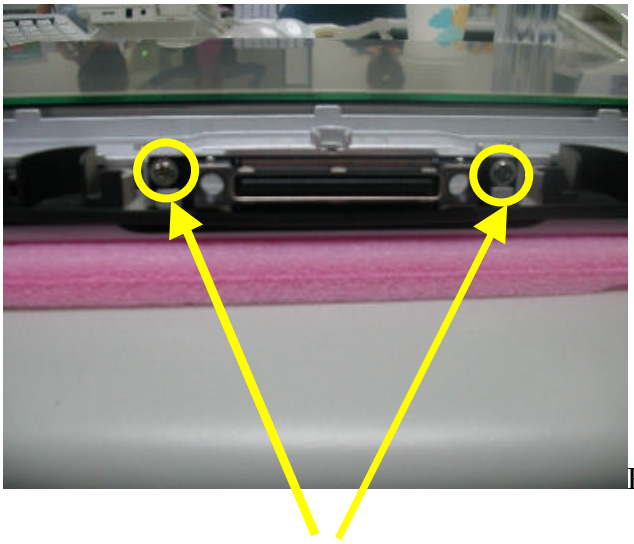


Fig.12

Remove 2 screws on FPC

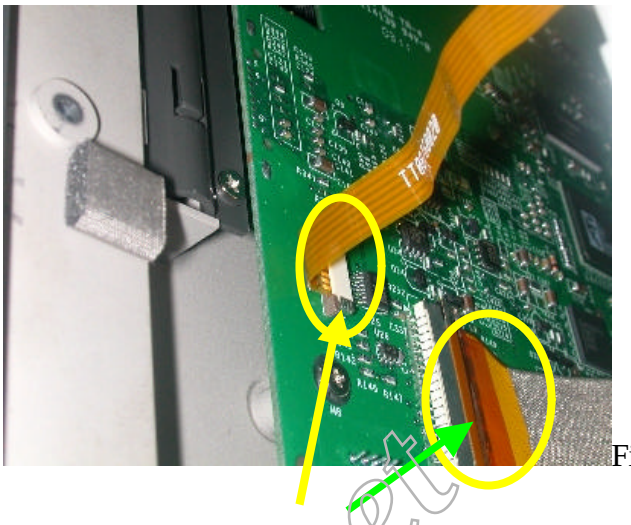


Fig.13

Remove LCD FPC cable and T/P cable

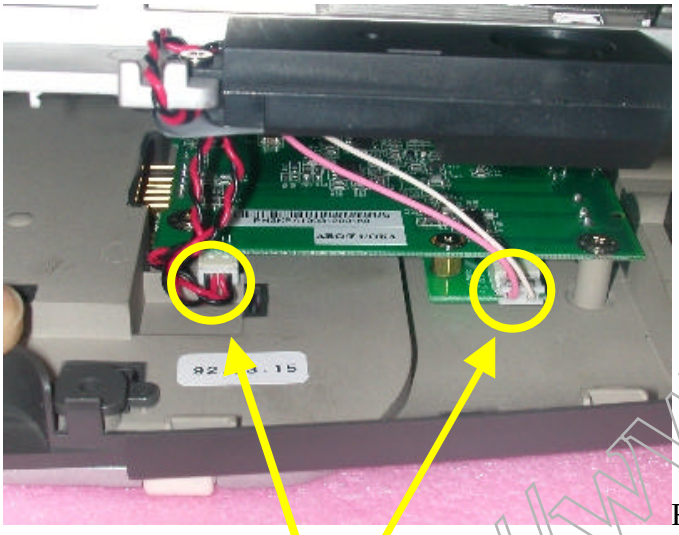


Fig.14

Remove speaker and LCD power cable

Remove Main board and Power board as Fig.15-16

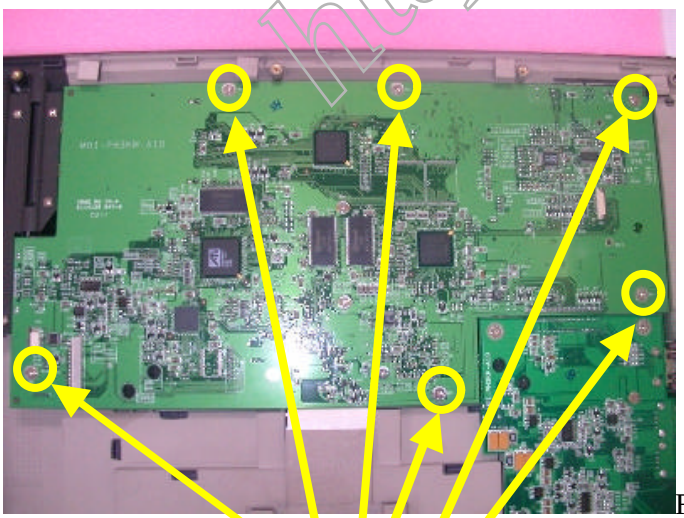


Fig.15

Remove 6 screws to remove Main board

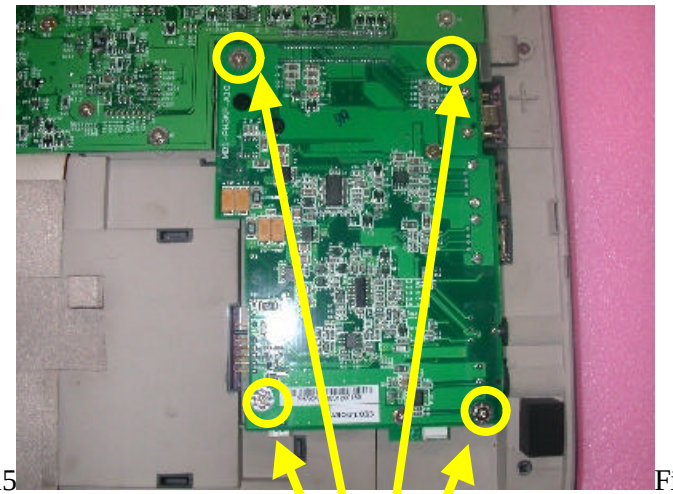


Fig.16

Remove 4 screws to remove Power board

http://www.wjel.net

DDC Instructions

General

DDC Data Re-programming
In case the DDC data memory IC or main EEPROM which storage all factory settings were replaced due to a defect, the serial numbers have to be re-programmed.
It is advised to re-soldered DDC IC and main EEPROM from the old board onto the new board if circuit board have been replaced, in this case the DDC data does not need to be re-programmed.

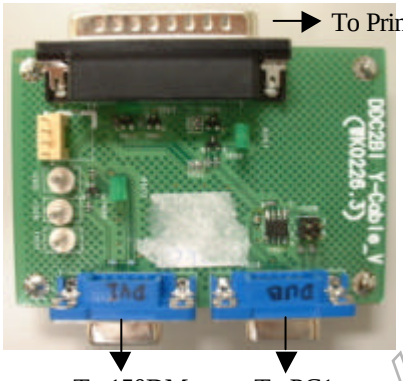
Additional information
Additional information about DDC (Display Data Channel) may be obtained from Video Electronics Standards Association (VESA). Extended Display Identification Data(EDID) information may be also obtained from VESA.

DDC EDID structure
For Analog interface: Standard Version 3.0
Structure Version 1.2
For Digital inferface: Standard Version 3.0
Structure Version 1.3

System and equipment requirements

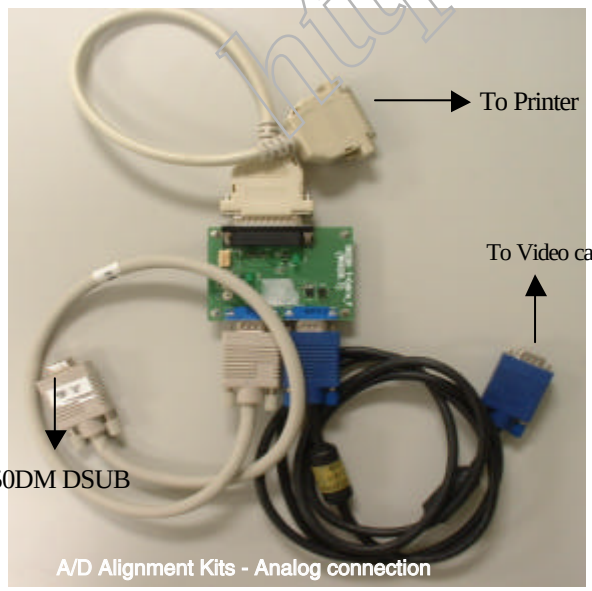
1. An i486 (or above) personal computer or compatible.
2. Microsoft operation system Windows 95/98.
3. EDID301.EXE program
4. A/D Alignment kits **:(Order number:313810610315)**
   inclusion : a. Alignment **board** x1 (as Fig. **1**)

Fig.**1**

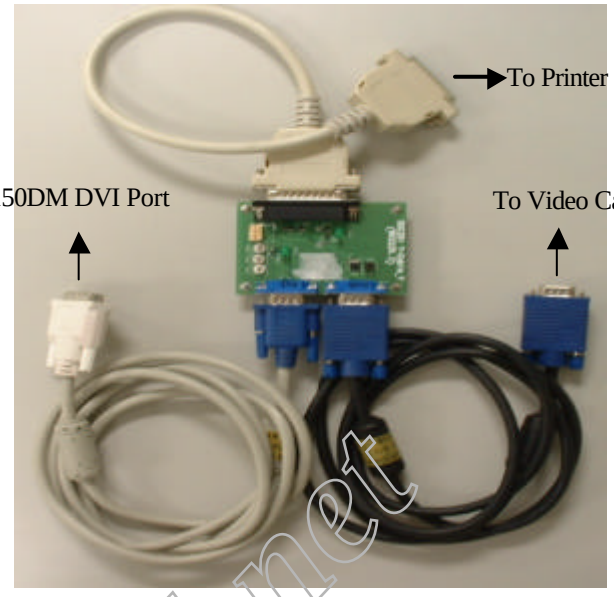


b. Printer cable x1
c. (D-Sub) to (**DVI**) cable x1

Note: The EDID301.EXE (Release Version 1.58 20000818)is a windows-based program, which cannot be run in MS-DOS.



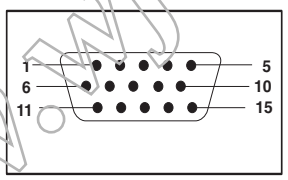
A/D Alignment Kits - Analog connection



A/D Alignment Kits - Digital connection

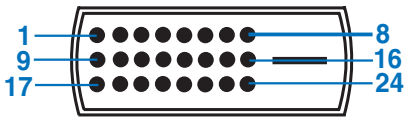
Pin assignment

A. 15-pin D-Sub Connector



Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	+5V
2	Green video input	10	Ground
3	Blue video input	11	Ground
4	Ground	12	Serial data line(SDA)
5	No Connected	13	H.Sync
6	Red video ground	14	V.Sync(VCLK for DDC)
7	Green video ground	15	Data clock line(SCL)
8	Blue video ground		

B. DVI-D Connector



Pin No.	Assignment	Pin No.	Assignment
1	TMDS Data 2-	13	TMDS Data 3+
2	TMDS Data 2+	14	+5V Power
3	TMDS Data 2/4 Shield	15	Ground (+5V)
4	TMDS Data 4-	16	Hot Plug Detect
5	TMDS Data 4+	17	TMDS Data 0-
6	DDC Clock	18	TMDS Data 0+
7	DDC Data	19	TMDS Data 0/5 Shield
8	No connect	20	TMDS Data 5-
9	TMDS Data 1-	21	TMDS Data 5+
10	TMDS Data 1+	22	TMDS Clock Shield
11	TMDS Data 1/3 Shield	23	TMDS Clock+
12	TMDS Data 3-	24	TMDS Clock-

http://www.wjel.net

DDC Instructions

1. Configuration and procedure

There are two ICs contained serial number on the circuit board, Analog Flash ROM IC , and main EEPROM **which storage** all factory settings. Following descriptions are **the connection** and procedure for Analog Flash ROM IC , the **main EEPROM** can be re-programmed along with Analog IC **by enable factory** memory data write function on the **DDC program (EDID301.EXE).**

Re-programming DDC IC

Step 1: **Supply 5V DC Power source from PC1 Video card to the Alignmement board,then connecting all cables as Fig.1 for analog DDC, Fig.2 for digital DDC.**
Step 2: Press and hold "Menu" and "Plus" buttons then power on the monitor.
Step 3: Follow the steps on DDC re-programming instructions to staring re-programming.

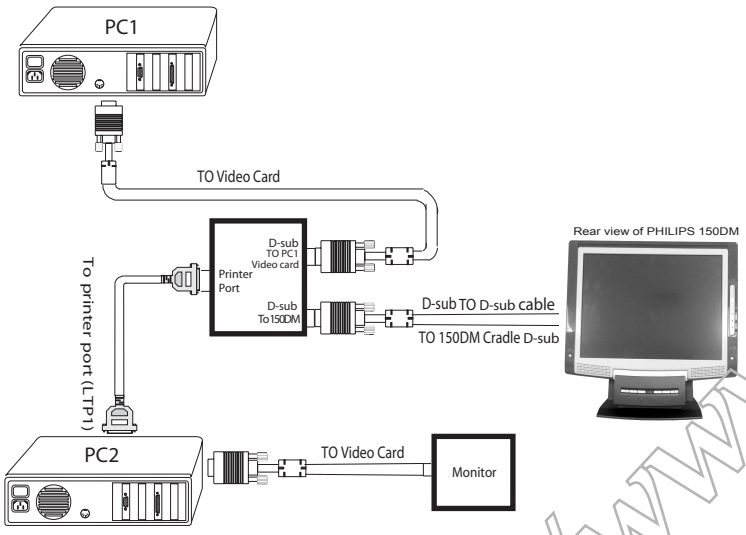


Fig. 1

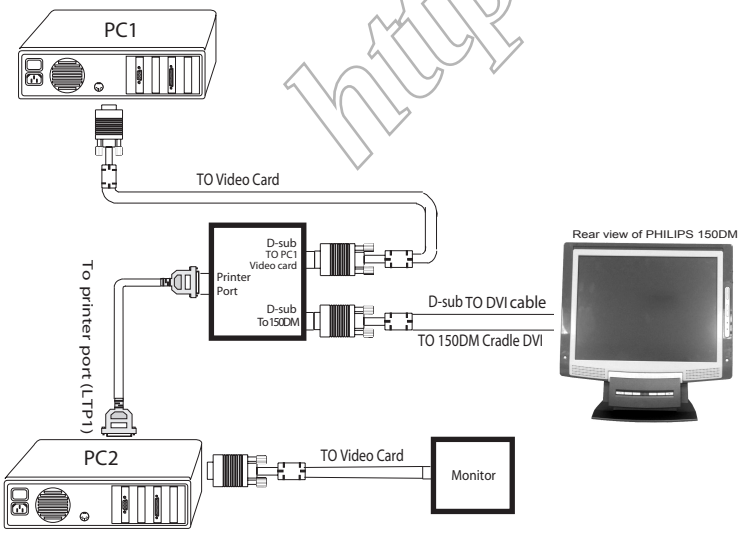
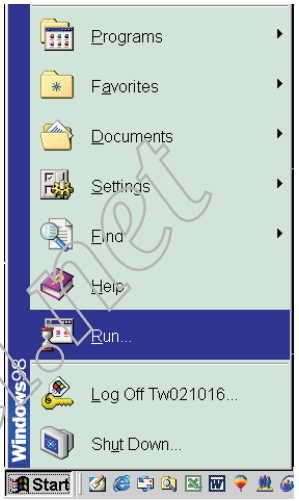


Fig. 2

2. DDC re-programming instructions

Start on DDC program

Start Microsoft Windows.
1. Insert the disk containing EDID301.EXE program into floppy disk drive.
2. Click Start, choose Run at start menu of Windows 95/98.



http://www.wiki.net

3. At the submenu, type the letter of your computer's floppy disk drive followed by :EDID301 (for example, A:\EDID301.exe,) as shown in Fig. 4.

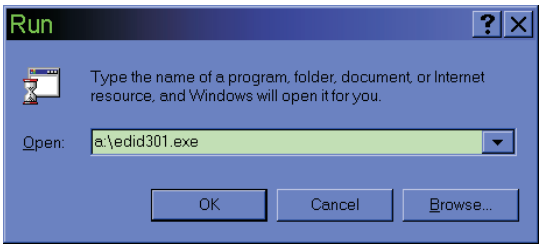


Fig. 4

4. Click OK button. The main menu appears (as shown on Fig. 5).

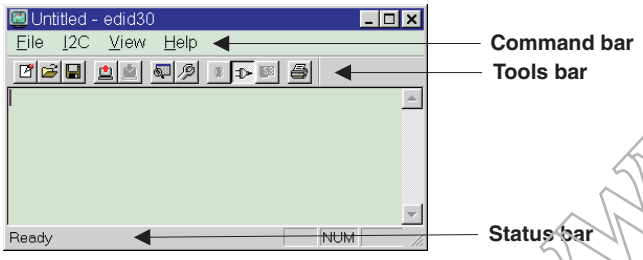


Fig. 5

Note:

If the connection is improper, you will see the following error message before entering the main menu. Meanwhile, the (read EDID) function will be disable. At this time, please make sure all cables are connected correctly and fixedly, and the

Loading DDC data from monitor

1. Click icon on the tools bar to bring up the Configuration Setup windows as Fig.6
2. Select the DDC2B as the communication channel.
3. Enable Factory memory data write function and fill in page address F0 to the block.
4. Disable Software DDC function.
5. Click OK button to confirm your selection.

Note: The Factory memory data write function will allow EDID30 to rewrite serial numbers both Analog DDC IC and main EEPROM to make sure both S/N are exactly the same. You may confirm the function by checking the S/N at Product information of the OSD menu after restarting the monitor.

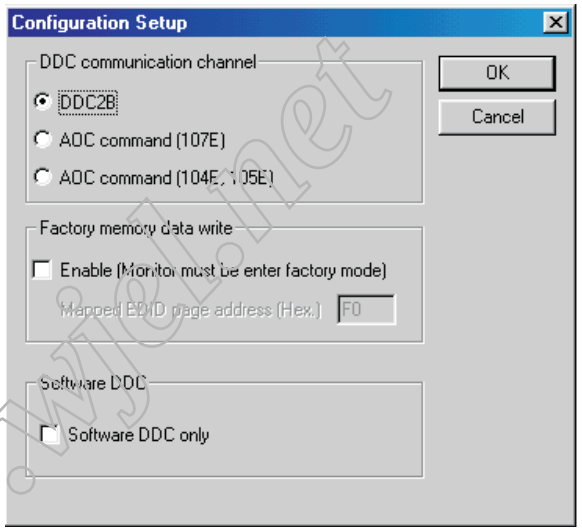


Fig. 6

6. Click icon to read DDC EDID data from monitor. The EDID codes will display on screen as following. (The EDID codes are depend on the model.) Meanwhile, The status bar will indicate 00% to 100% when reading.

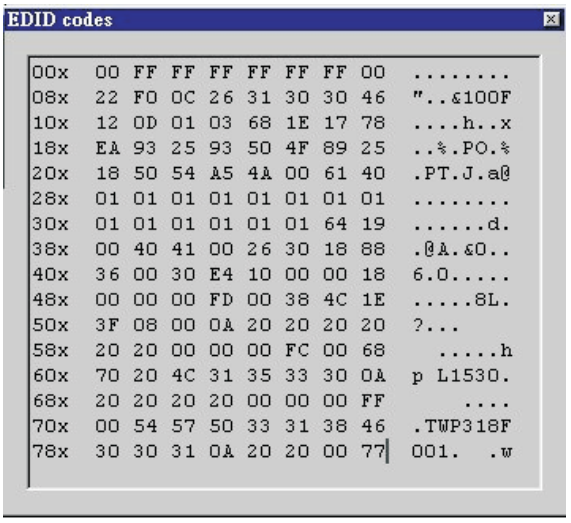


Fig. 7

http://www.wiet.net

DDC Instructions

Note:

During the loading, EDID30 will verify the EDID data which just loaded from monitor before proceed any further function, once the data structure of EDID can not be recognized, the following error message will appear on the screen (Fig. 8). Please confirm following steps to avoid this message.

1. The data structure of EDID was incorrect.
2. DDC IC that you are trying to load data is empty.
3. Wrong communication channel has set at configuration setup Windows.
4. Cables loosed or poor contact of connection.

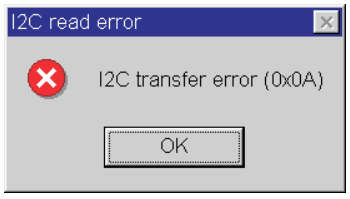
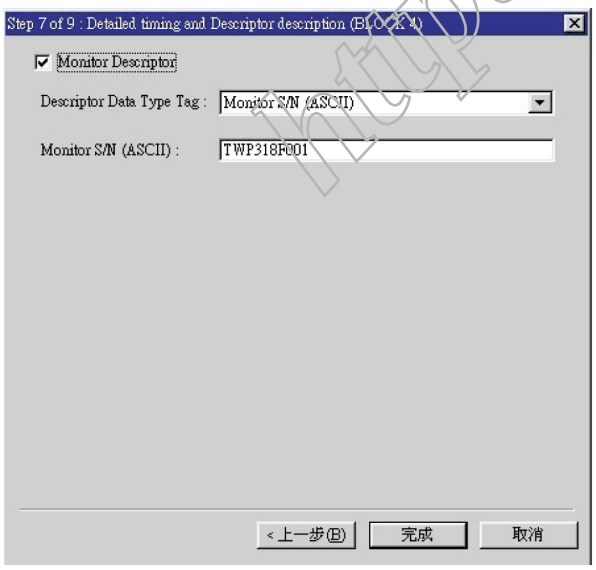


Fig. 8

Modify DDC data (Serial No.)

1. Click icon on the toosl bar.
2. Click Next > till the Step **7** of 9 window appears.
3. Type the new Serial No. (for example, TWP318F001).
4. Click Next > till the last step window appears, then click Finish to exit the Step window.



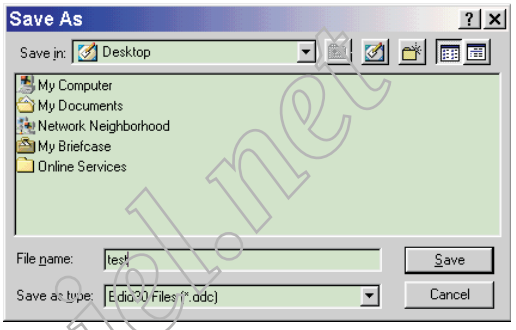
Write DDC data to monitor

1. Click icon from the tools bar to starting rewrite DDC data.
2. Click for confirmation.

Save DDC data as a file

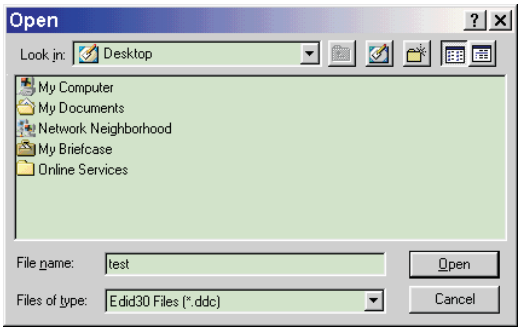
Sometimes, you maybe need to save DDC data as a text file for using on other DDC chip. To save DDC data, follow the steps below:

1. Click icon on the tools bar and type a file name you like. The file format is ddc type which can be open by Microsoft WordPad.
2. Click Save button.



Load DDC data from file

1. Click from the tools bar.
2. Select the file you want to open.
3. Click . Open Button.

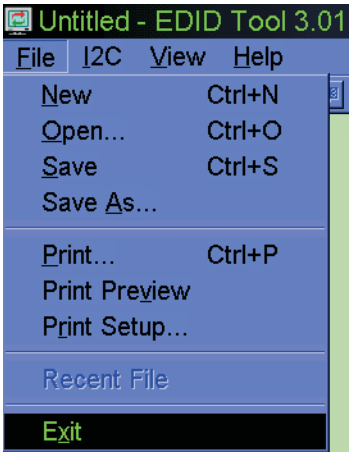


4. Now you can re-programming DDC data which you just loaded from a file, please be confirmed that model and serial number are correct and match with the monitor you are trying to re-write.

http://www.wl.net

Exit DDC program

1. Click file command on the command bar then select Exit.



Definition of Serial Number:

Please refer to page 27.

http://www.wjel.net

Repair Flow Chart

Go to cover page

Issue 1: Cannot Boot

Checkpoint 1: Flash board checking P1
Checkpoint 2: Testing if power and GND short or not P2
Checkpoint 3: If both green and yellow LED are on P3
Checkpoint 4: Checking if SD_CLK R168=95MHz; R88=3.68MHz P4
Checkpoint 5: Checking if R58 shows data P5

Issue 2: Green LED on & LCD no display

Checkpoint 1: Checking if LCD abnormal; replace LCD and retest P6
Checkpoint 2: Checking if inverter abnormal P6
Checkpoint 3: If U7pin short P6
Checkpoint 4: If U37.26pin .27pin=Hi P7
Checkpoint 5: If U21 W1030VCC2_5 shows voltage P8

Issue 3: Wireless LAN NG

Checkpoint 1: If LAN card NG P9
Checkpoint 2: If CN4 short or open P9

Issue 4: Cannot Reset

Checkpoint 1: If SW2 NG P10
Checkpoint 2: If U30.3 voltage change with Hi Lo button P10

Issue 5: No sound or very little

Checkpoint 1: If SP NG or cable issue P11
Checkpoint 2: If VR of S/B NG P11
Checkpoint 3: If Y1=24.567MHz P11
Checkpoint 4: If R11, R12, R13, R8, R9, R10 abnormal or short P12

Issue 6: Cradle USB doesnt work

Checkpoint 1: If CN3, CN4 short P13
Checkpoint 2: If CN3.1pin CN 4.1pin=5V P13

Issue 7: Touch Panel cannot work

Checkpoint 1: If CN2 well connected or pin cold soldering P14
Checkpoint 2: Y3=40MHz P14
Checkpoint 3: If U25.16 shows 666.5KH P15

Issue 8: Touch Panel cannot be adjusted

Checkpoint 1: If U24 VCC shows 5V P16

http://www.wjel.net

Repair Flow Chart

Go to cover page

Issue 9 USB cannot wrk	
Checkpoint 1: Y7=6MHz	P17
Checkpoint 2: If U42 .12 .16 .20 .29 .25 .33 .37 shows 3.2V	P18

Issue 10: USB (Touch) cannot work	
Checkpoint 1: Pen Down if U25 .11=Lo	P19

Issue 11: USB (Keyboard wireless) cannot work	
Checkpoint 1: CN12.2 is about 2.8V; CN12.3 is about 0V	P20

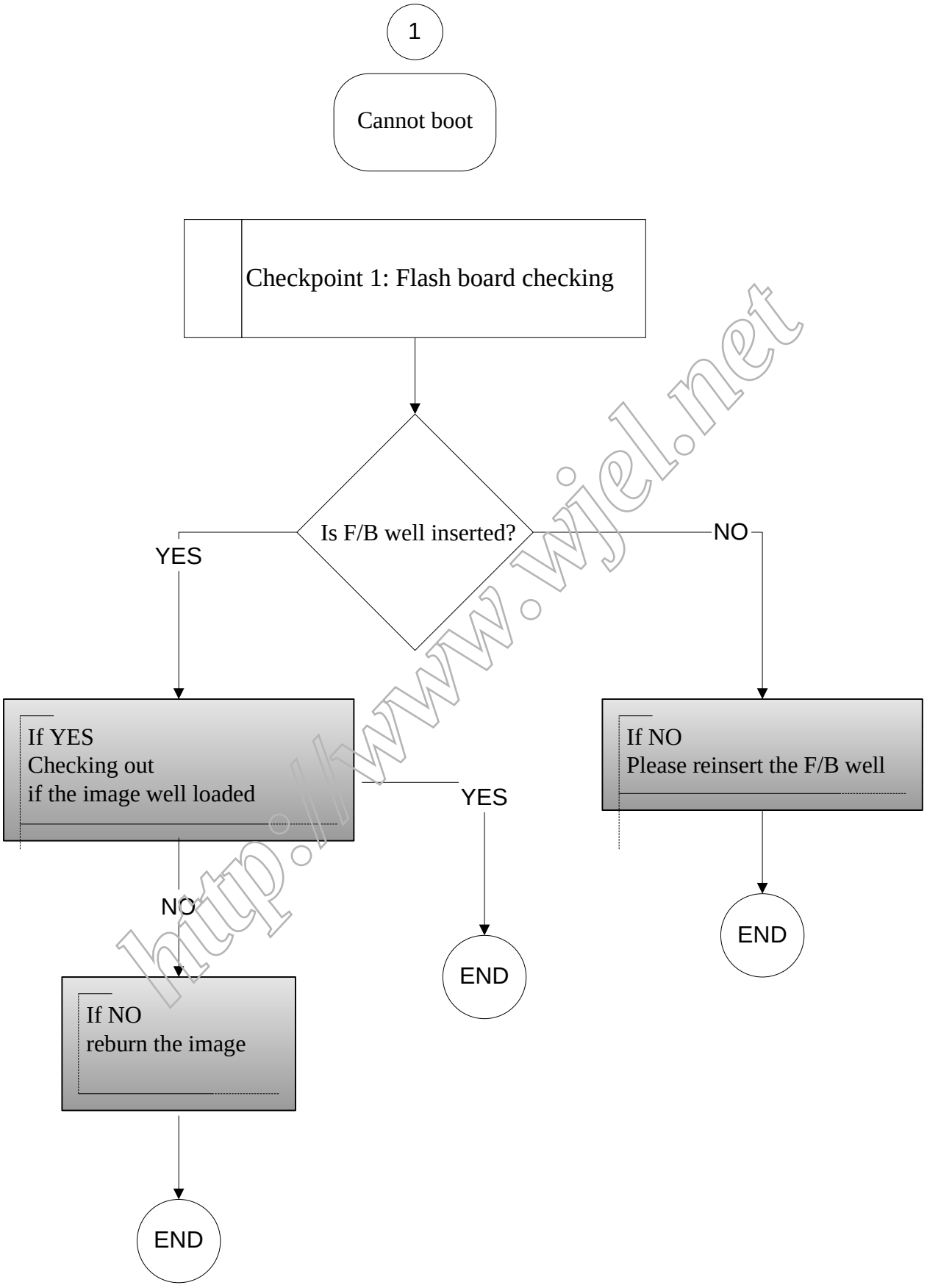
Issue 12: USB (PAD USB) cannot work	
Checkpoint 1: If P/B LM3526 U9.7 shows 5V	P21

Issue 13: Cradle cannot work	
Checkpoint 1: insert PAD on the cradle; It shows “count down” signal	P22
Checkpoint 2: Y2=24MHz; R8=65MHz	P23
Checkpoint 3: Y1=24MHz	P24

Issue 14: Cradle DVI no display	
Checkpoint 1: CN6 .15 is about 3.3V	P25

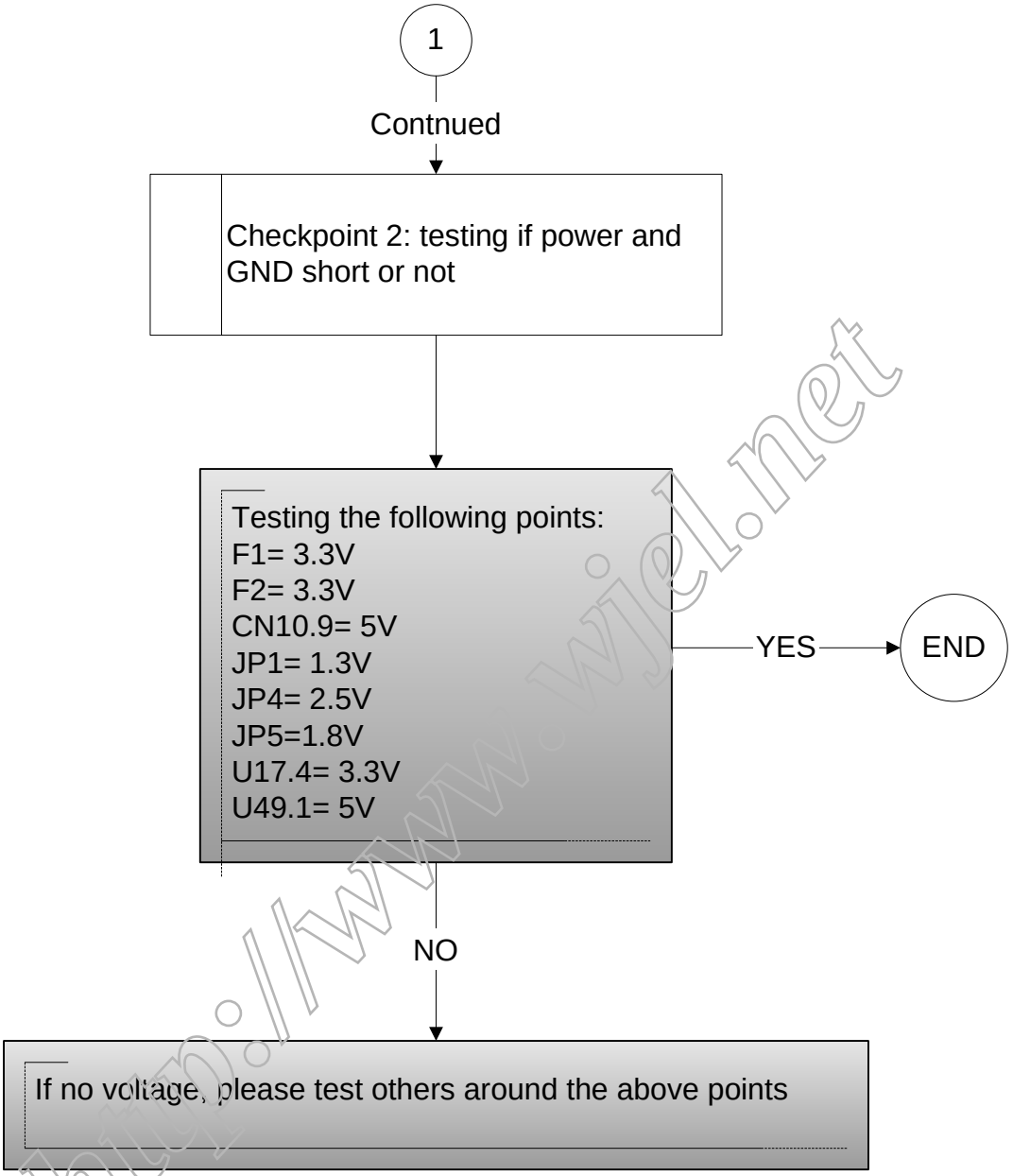
Issue 15: Cradle DSUB no Display	
Checkpoint 1: CN8 .10 is about 3.3V	P26

http://www.wjel.net



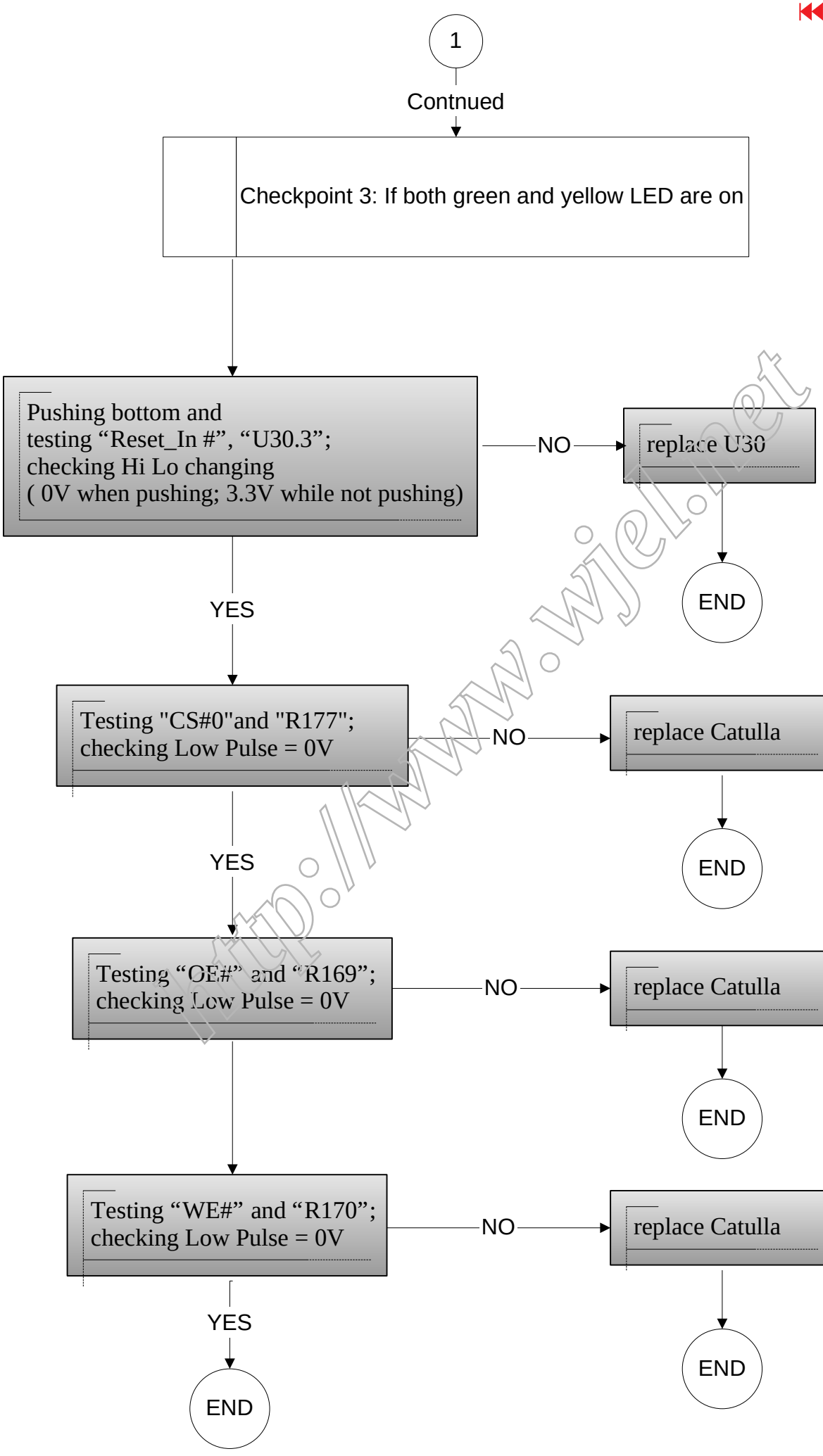
http://www.wjel.net

Repair Flow Chart



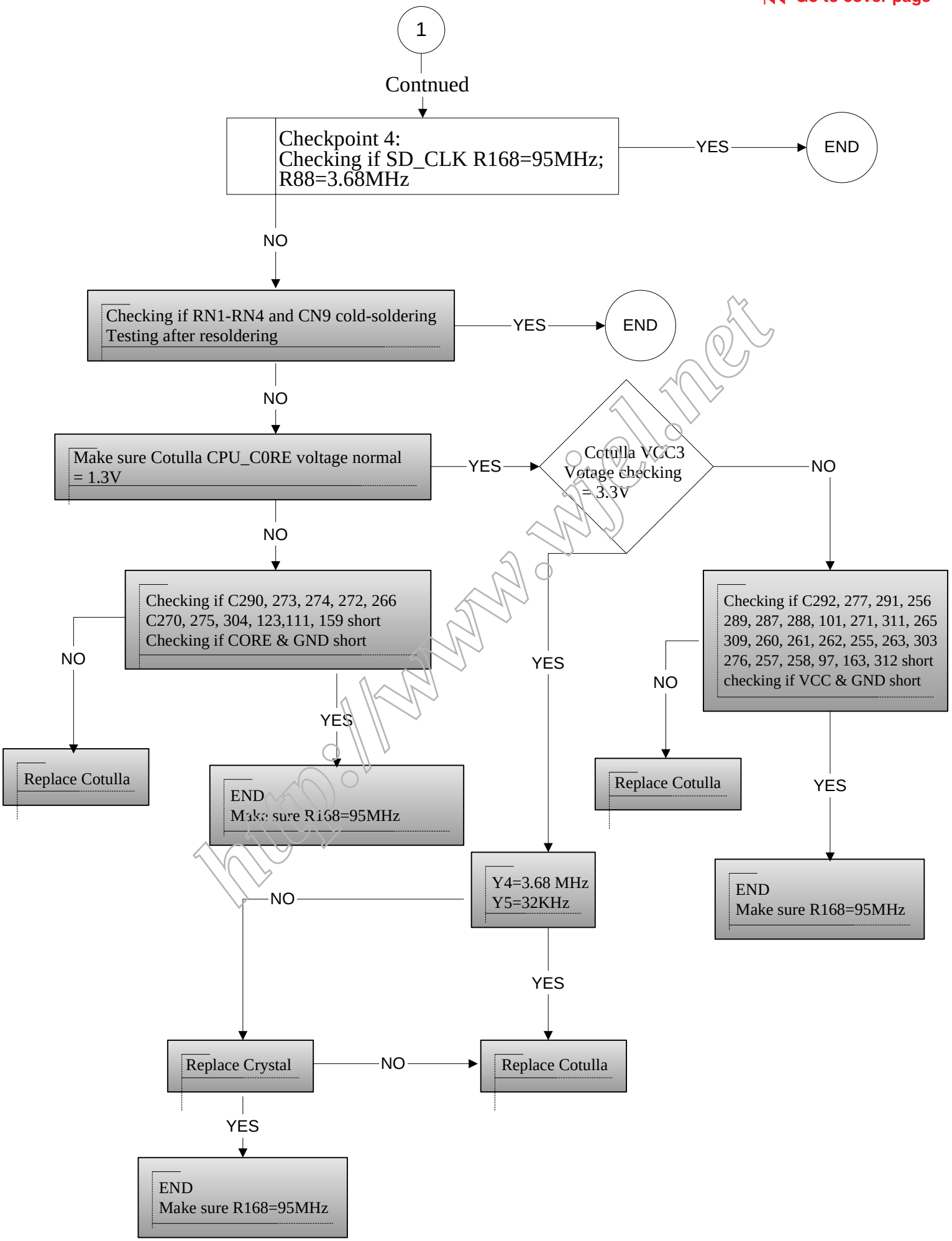
http://www.wjel.net

Repair Flow Chart



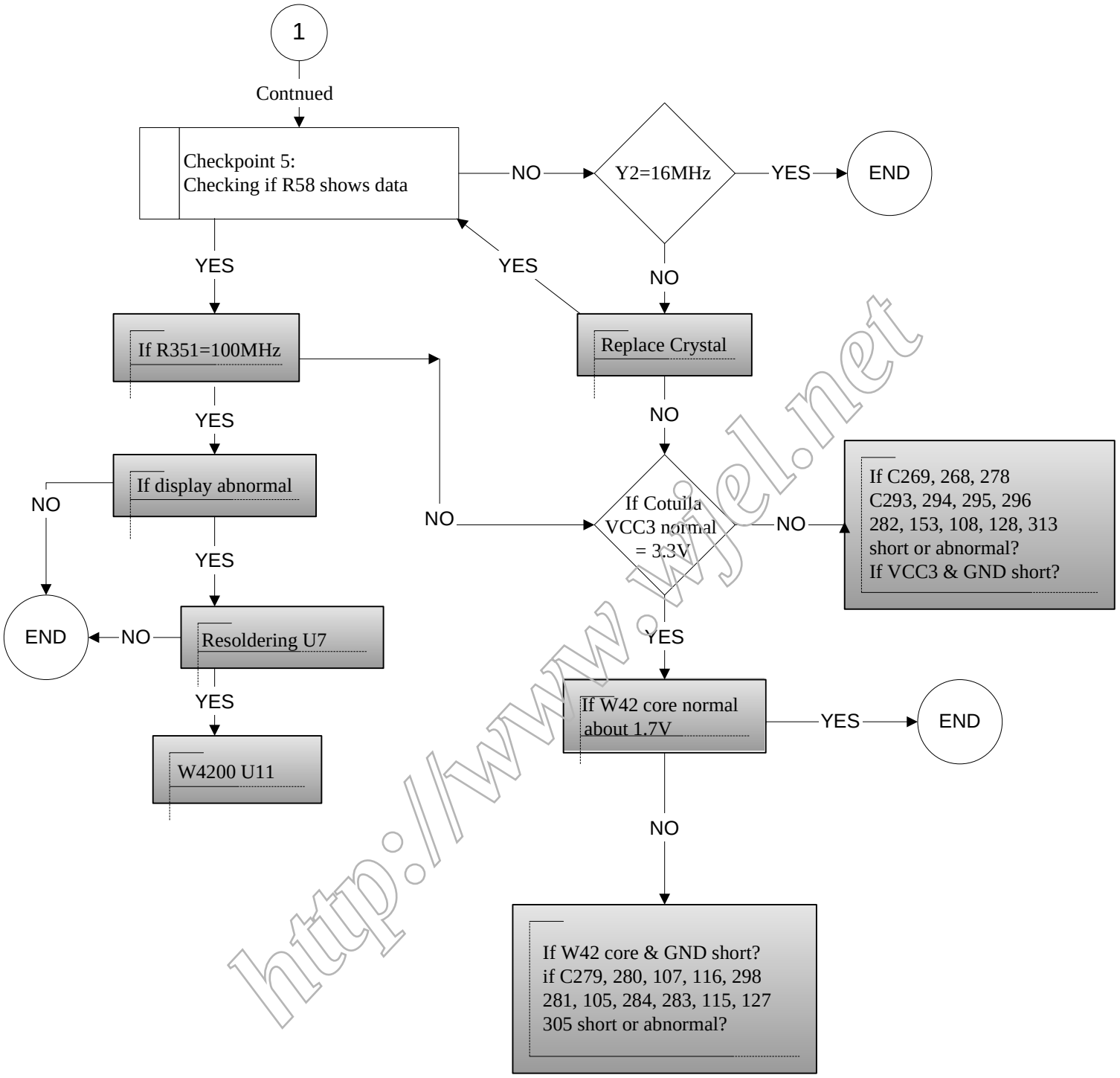
http://www.wjel.net

Repair Flow Chart



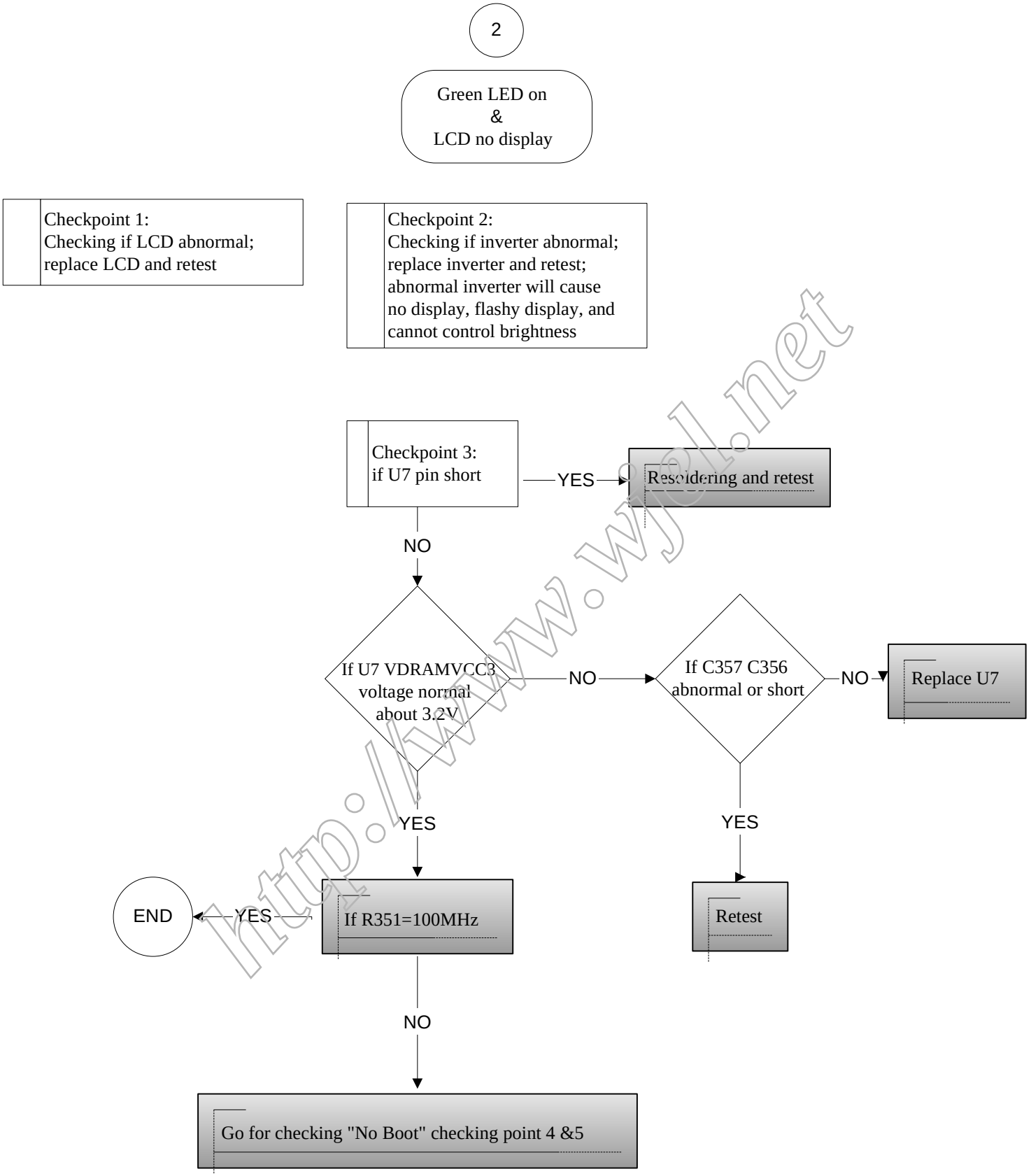
http://www.wjell.net

Repair Flow Chart

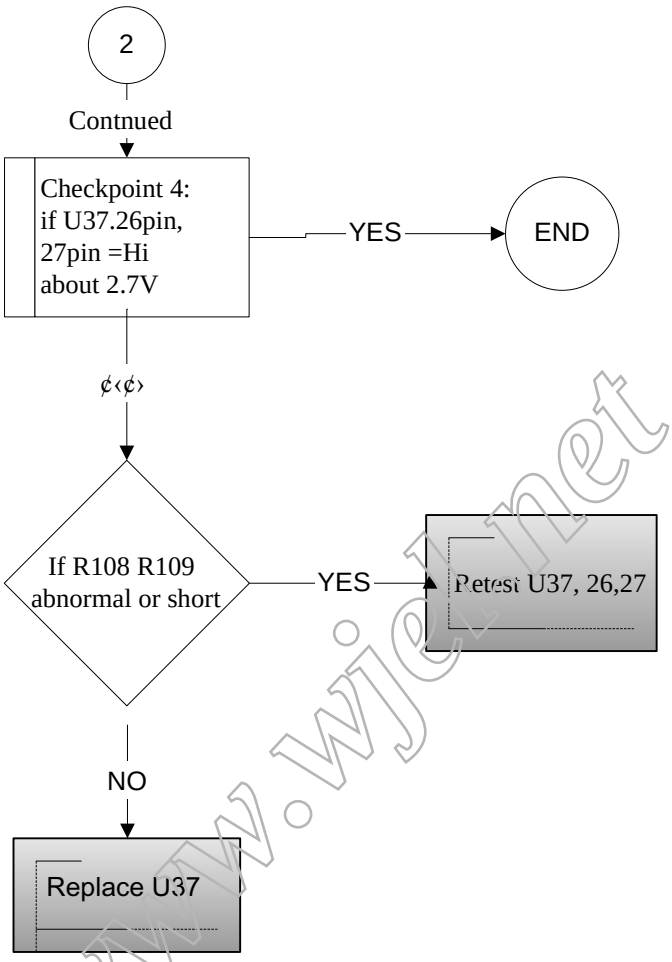


http://www.wjel.net

Repair Flow Chart

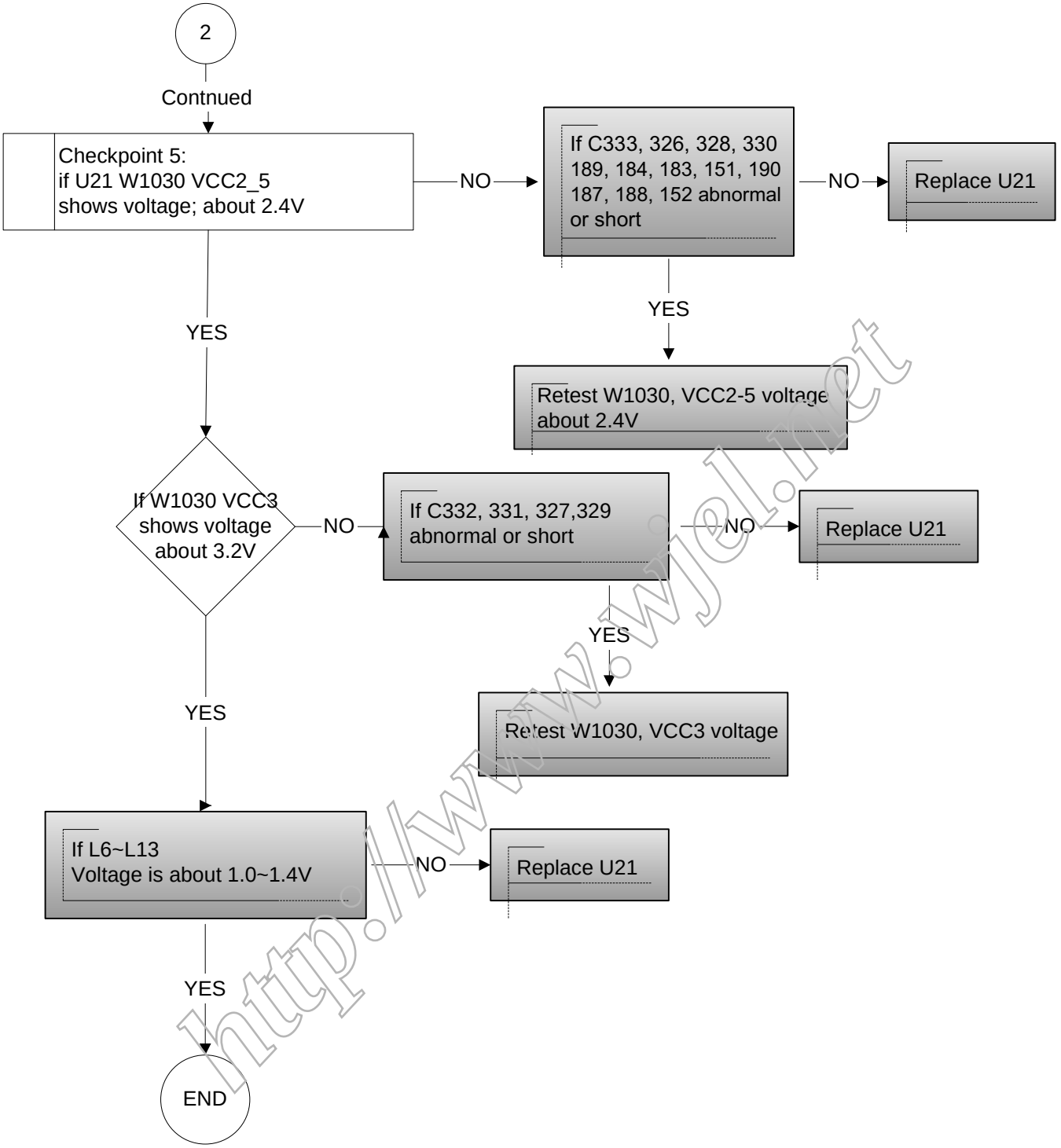


http://www.wjpl.net



http://www.wjc.net

Repair Flow Chart

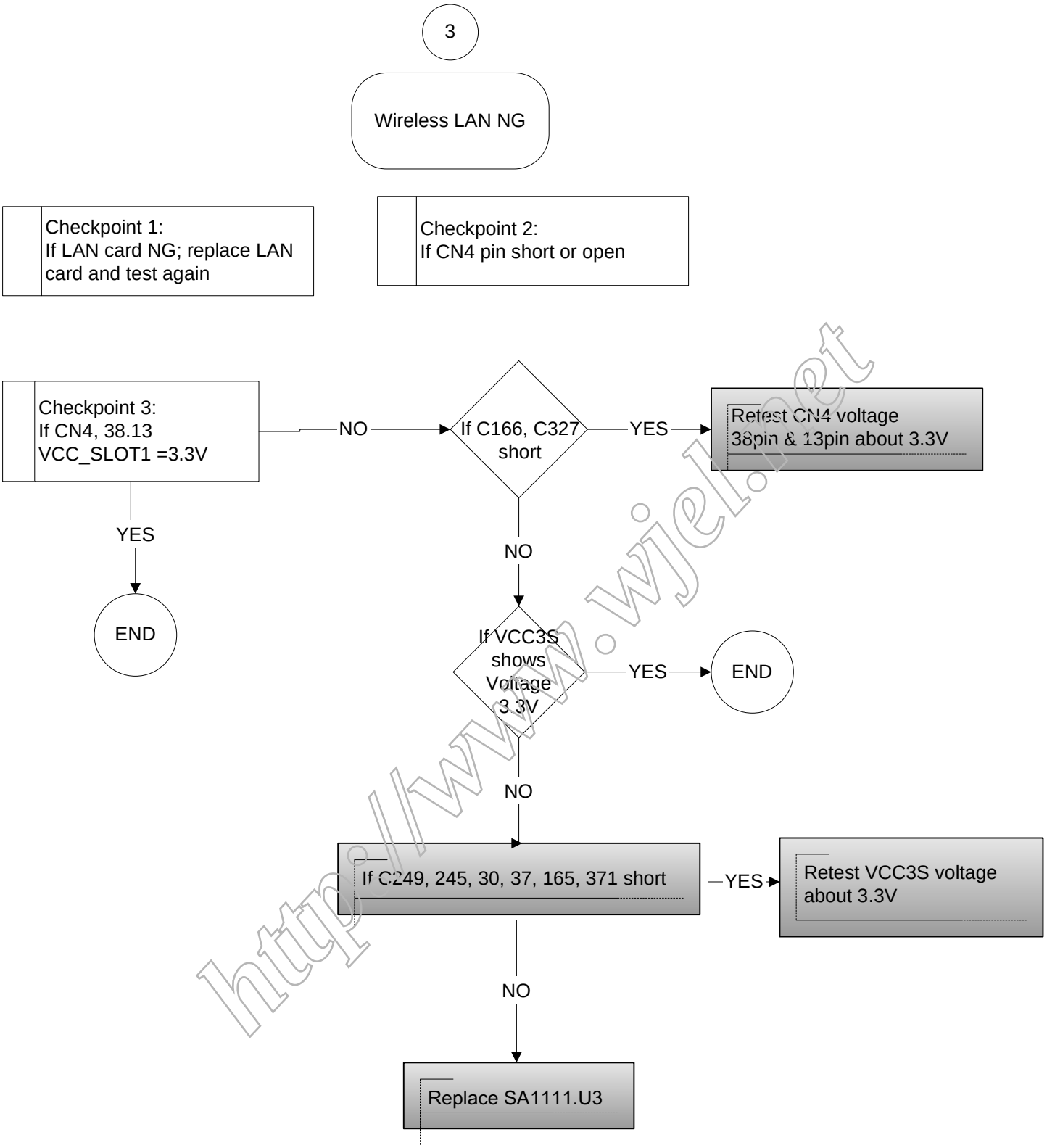


http://www.wjel.net

2

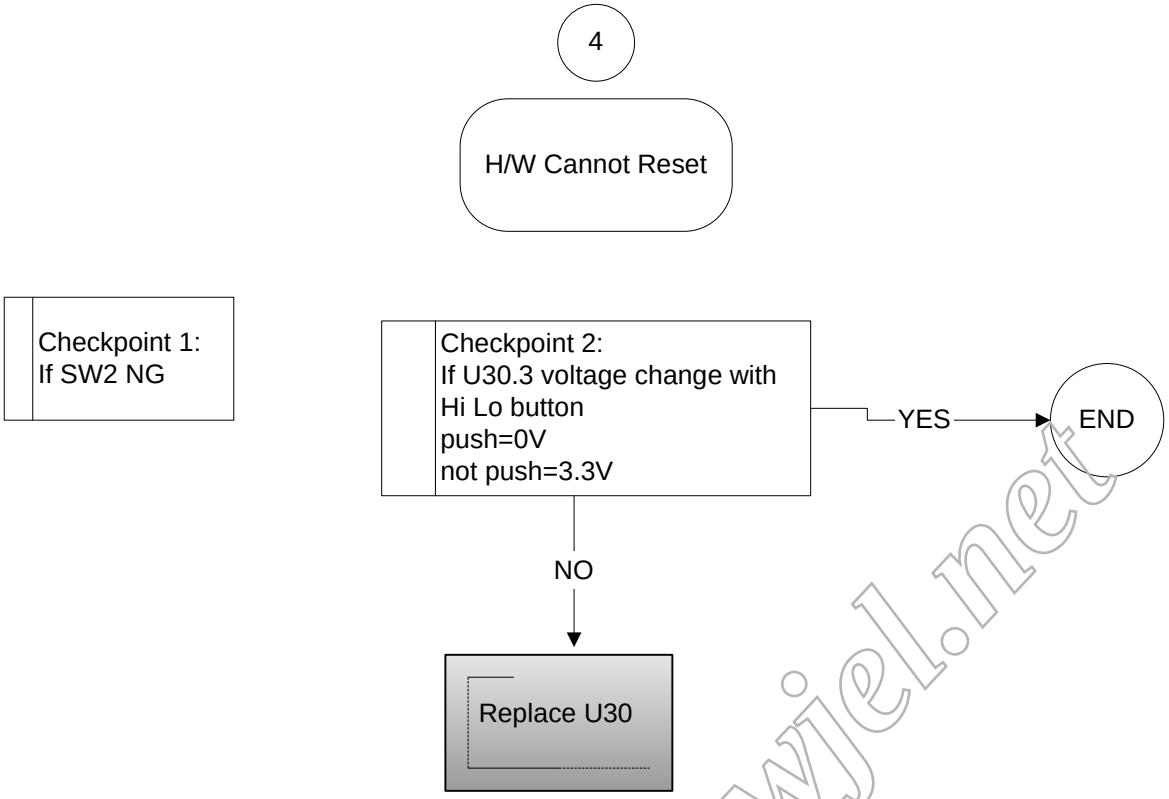
	Checkpoint 6: if RN9, 10, 11, 12, 13 short or cold soldering; please resoldering and test again

Repair Flow Chart



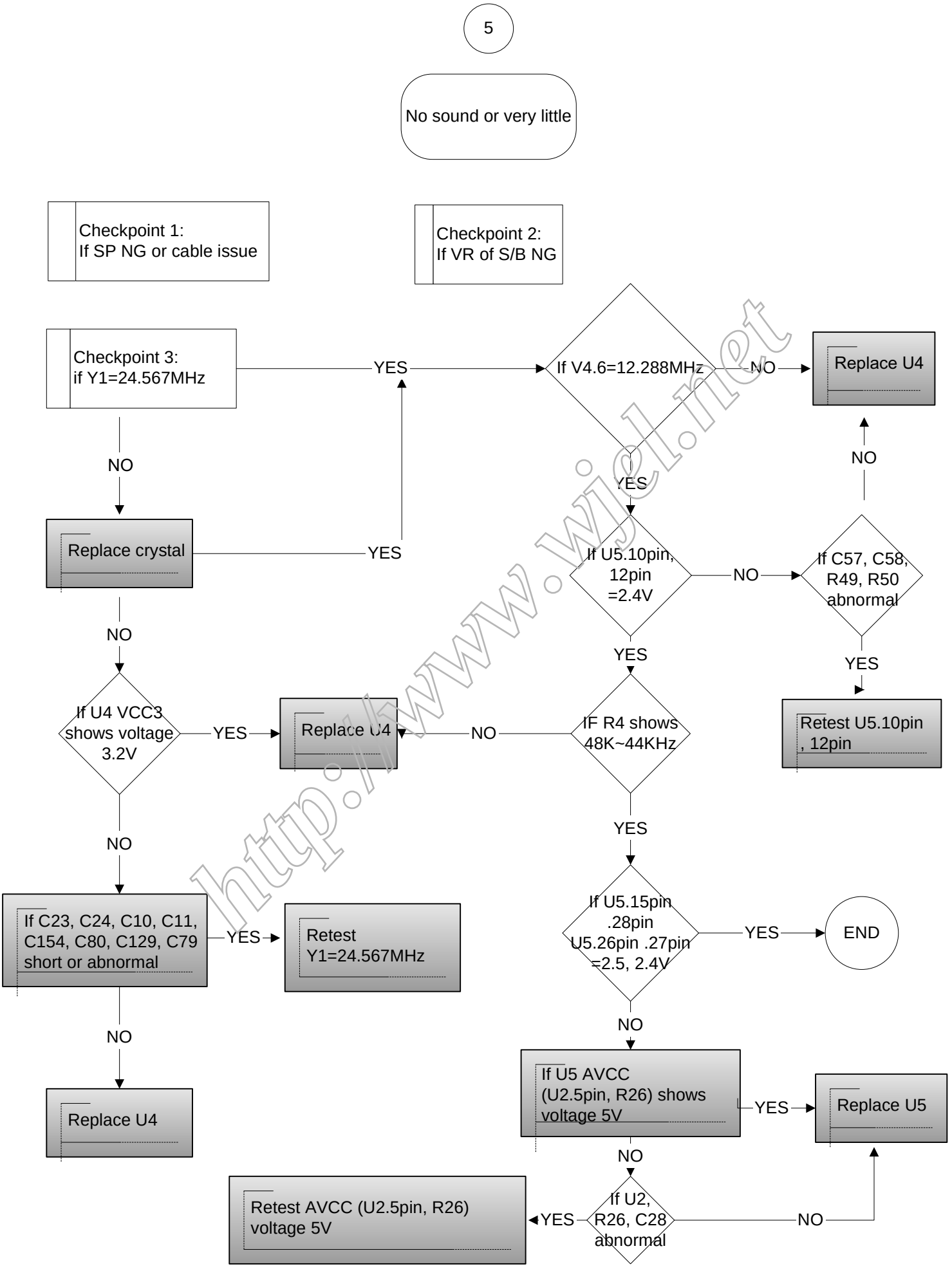
http://www.wjel.net

Repair Flow Chart



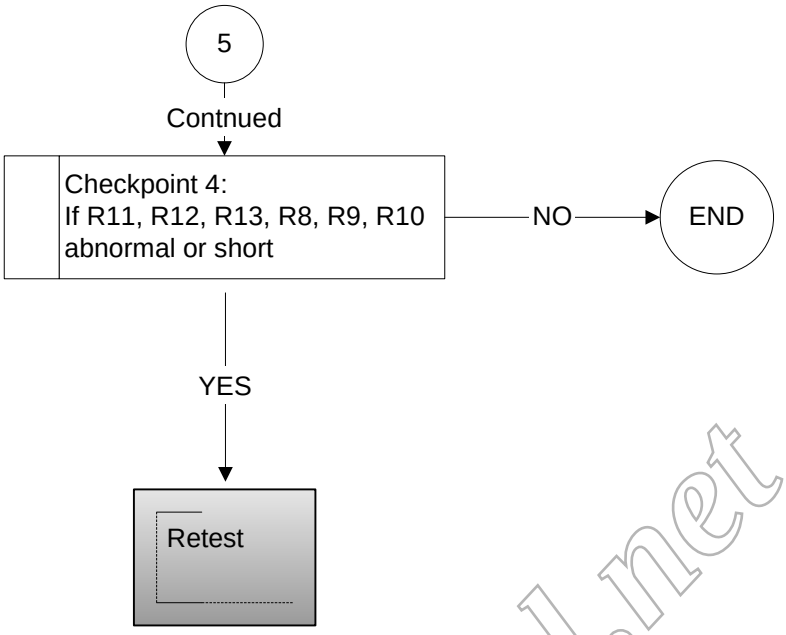
http://www.wjel.net

Repair Flow Chart



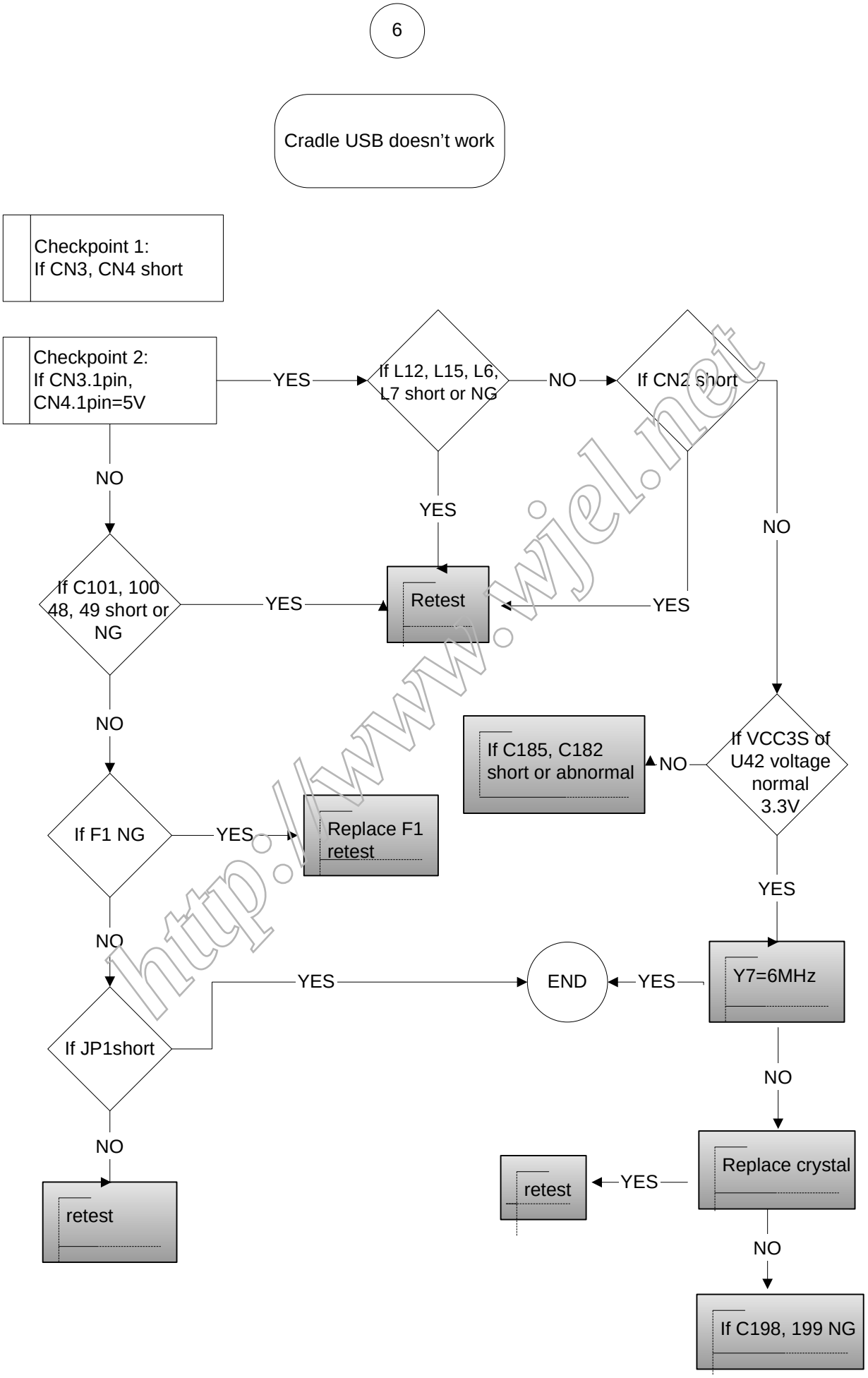
http://www.wiel.net

Repair Flow Chart

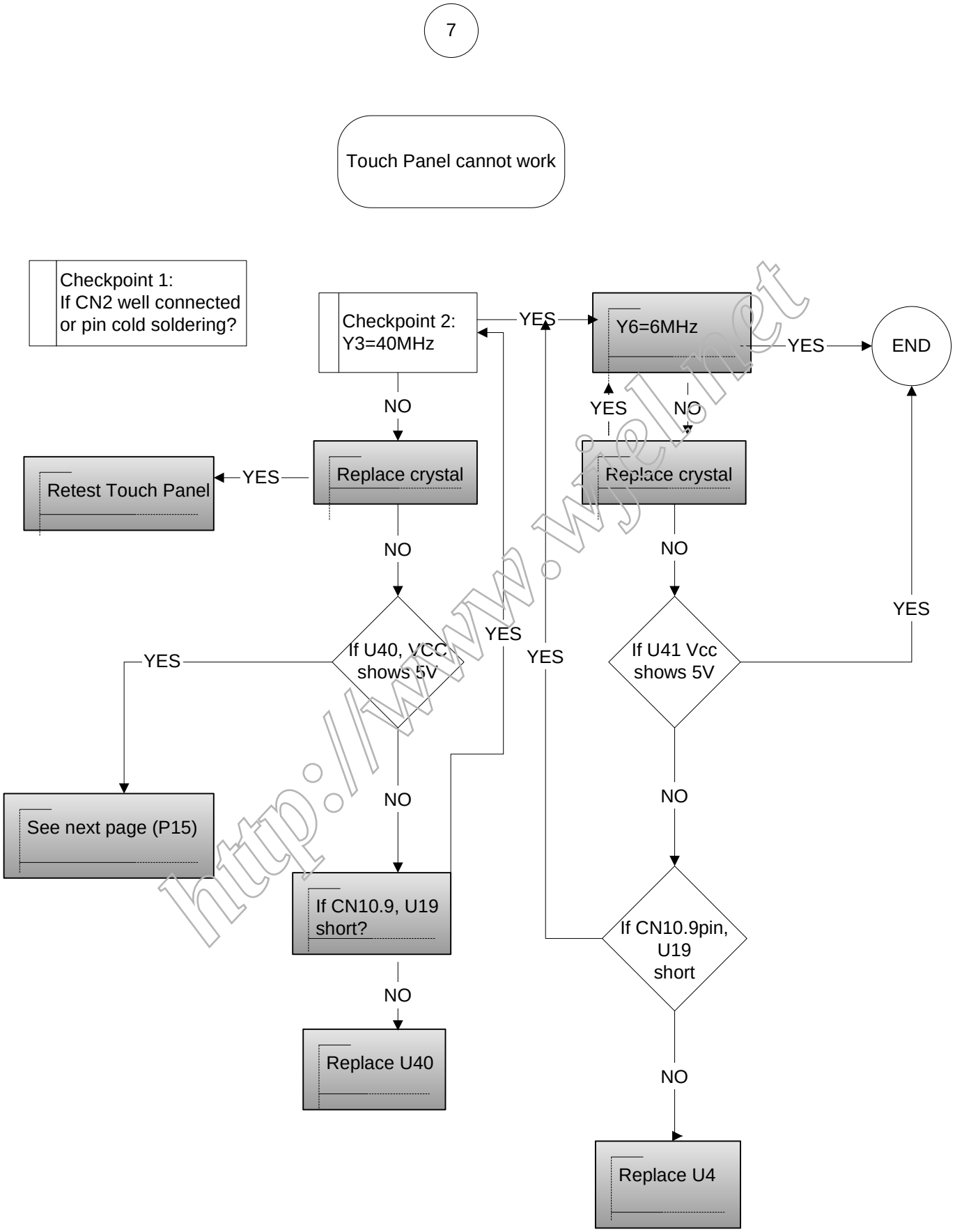


http://www.wjel.net

Repair Flow Chart

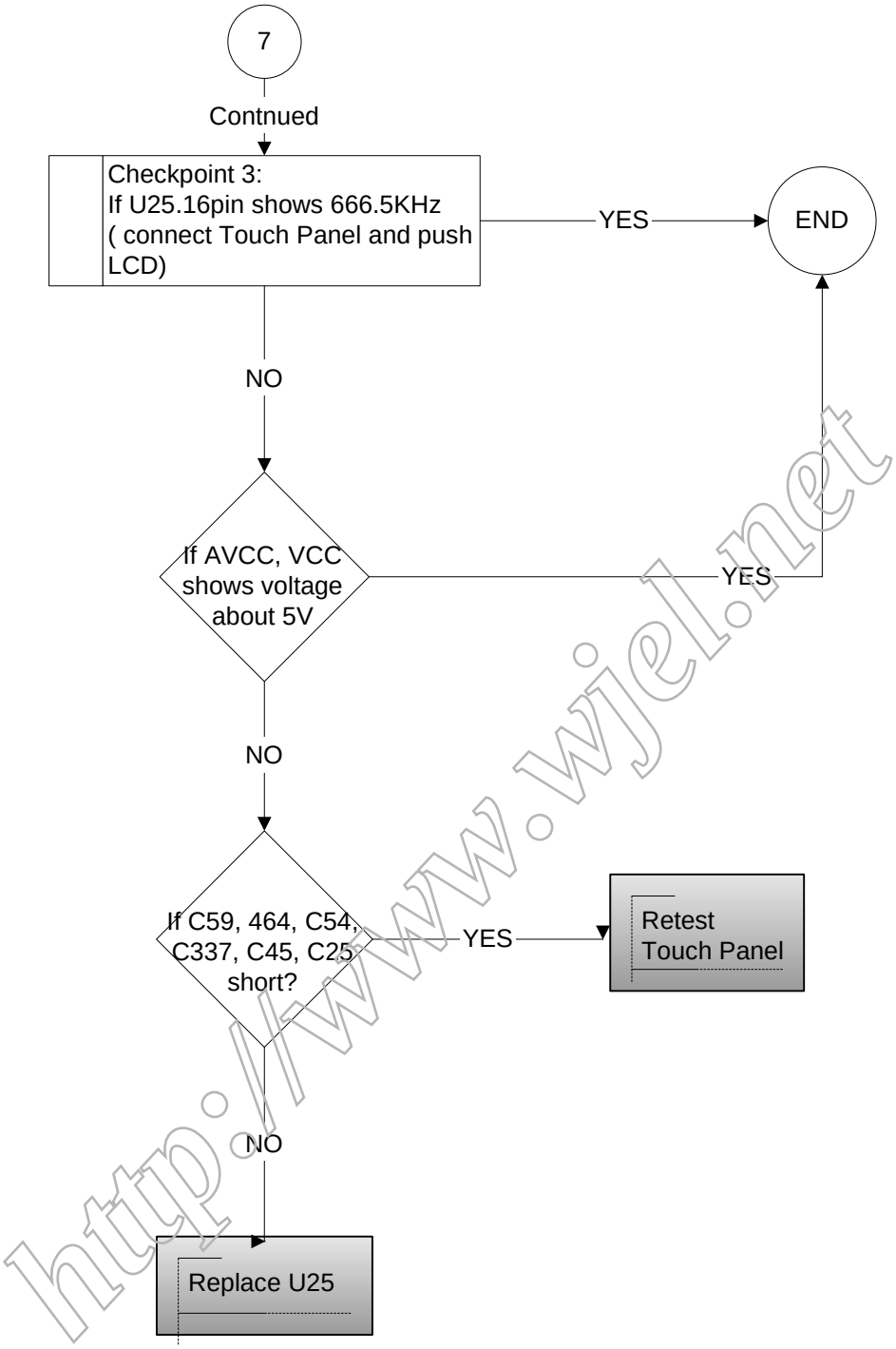


http://www.wjel.net

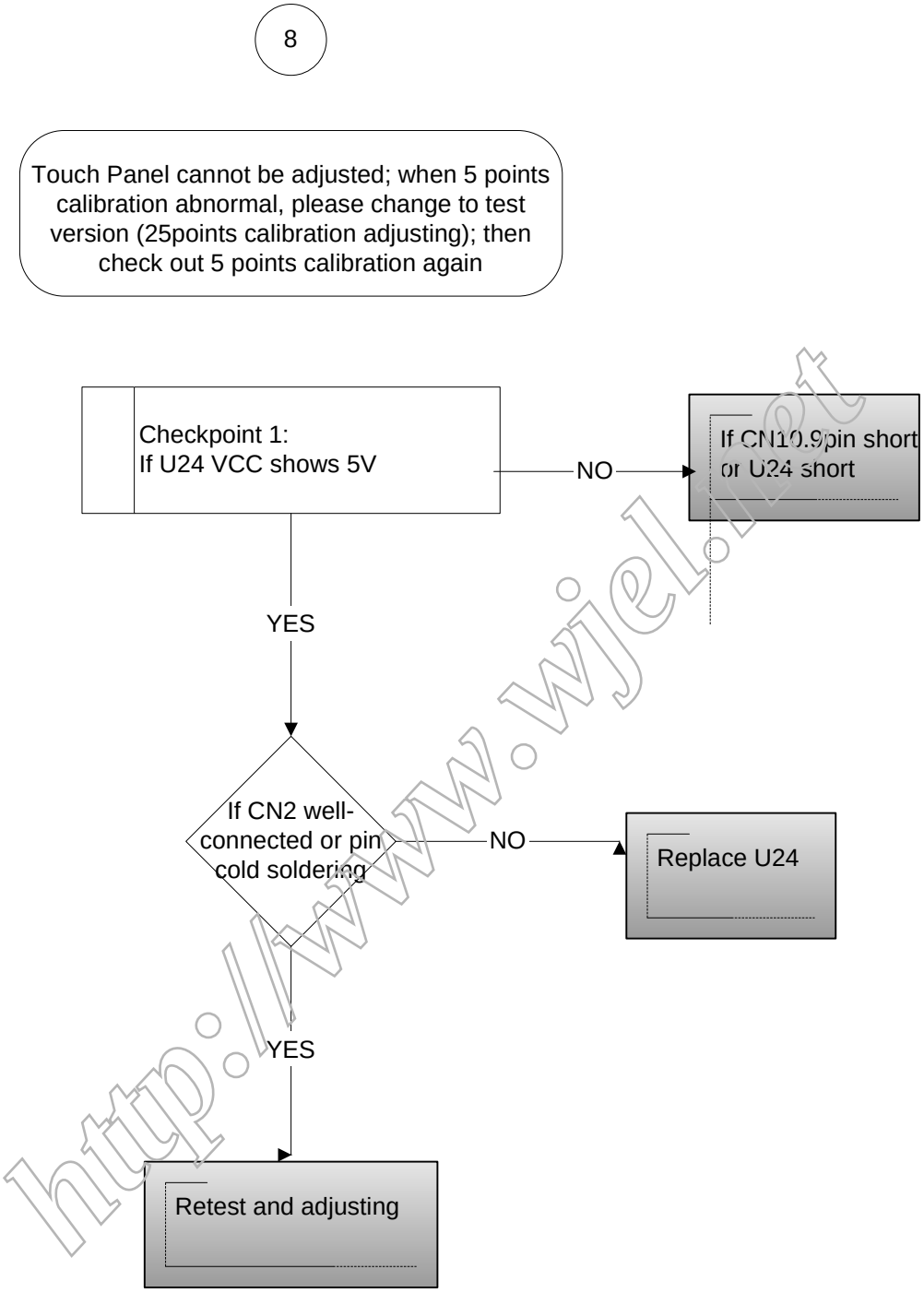


http://www.wjelnet

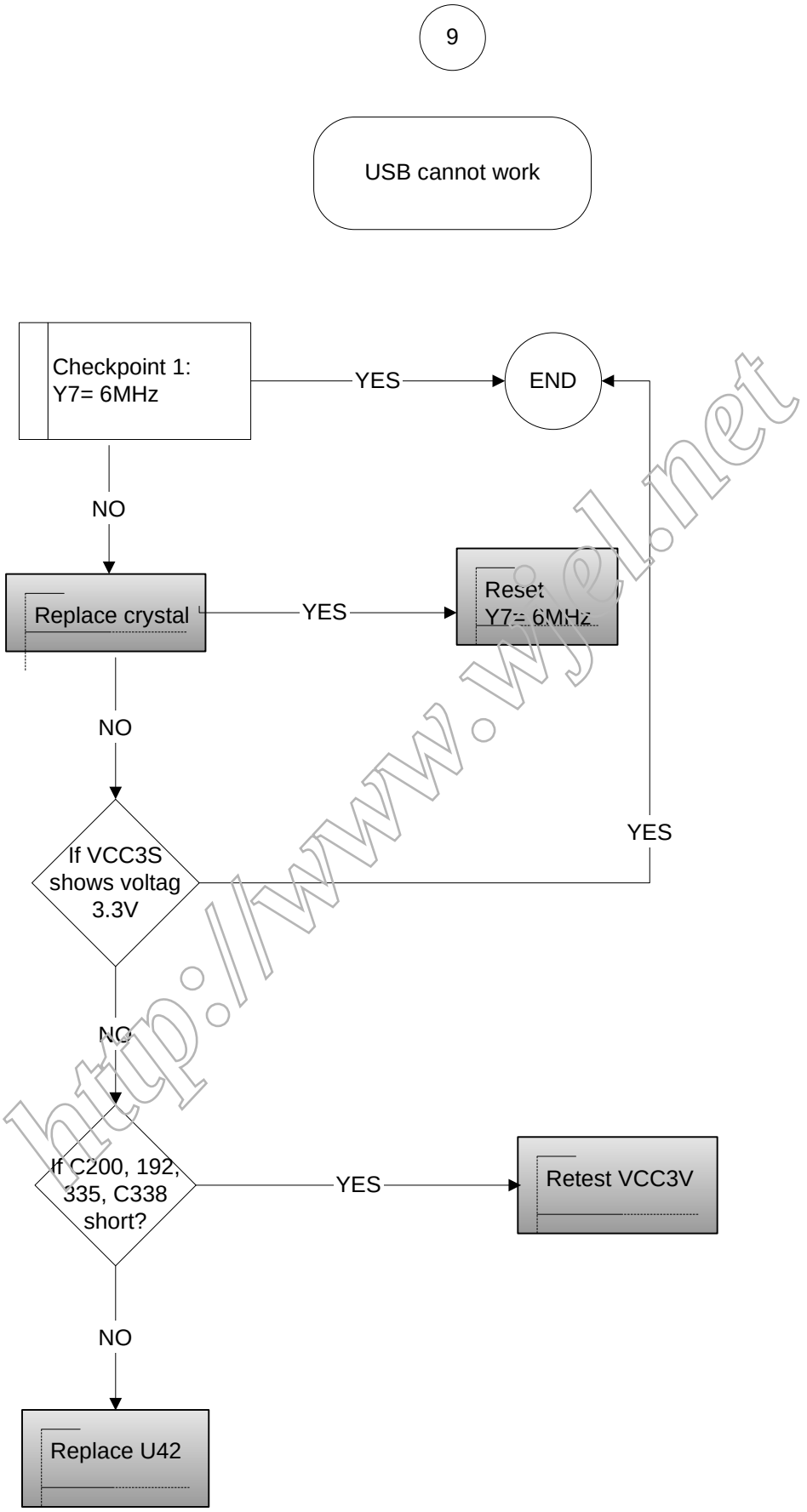
Repair Flow Chart



http://www.wjel.net

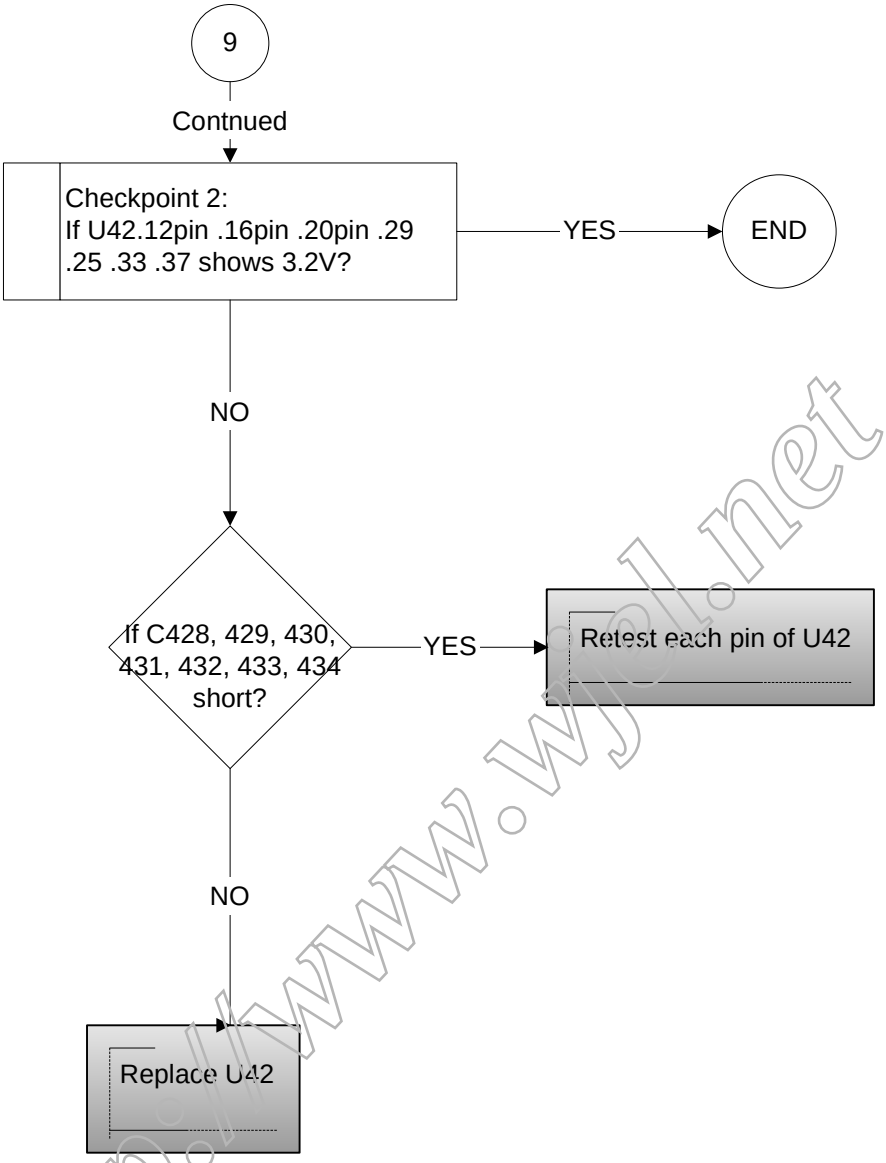

8
Touch Panel cannot be adjusted; when 5 points calibration abnormal, please change to test version (25points calibration adjusting); then check out 5 points calibration again
Checkpoint 1:
If U24 VCC shows 5V
NO
If CN10.9pin short or U24 short
YES
If CN2 well-connected or pin cold soldering
NO
Replace U24
YES
Retest and adjusting

http://www.wjel.net

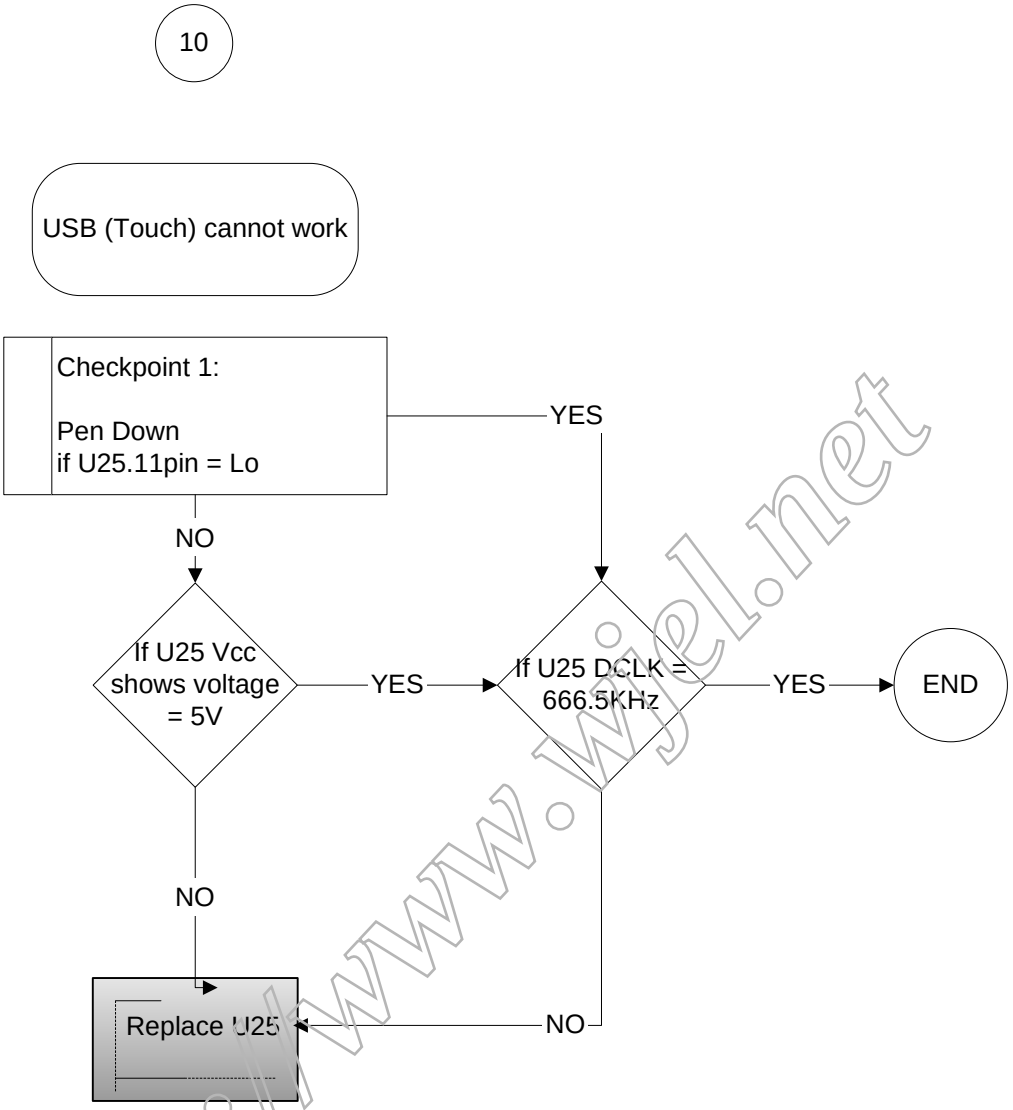


http://www.wjel.net

Repair Flow Chart

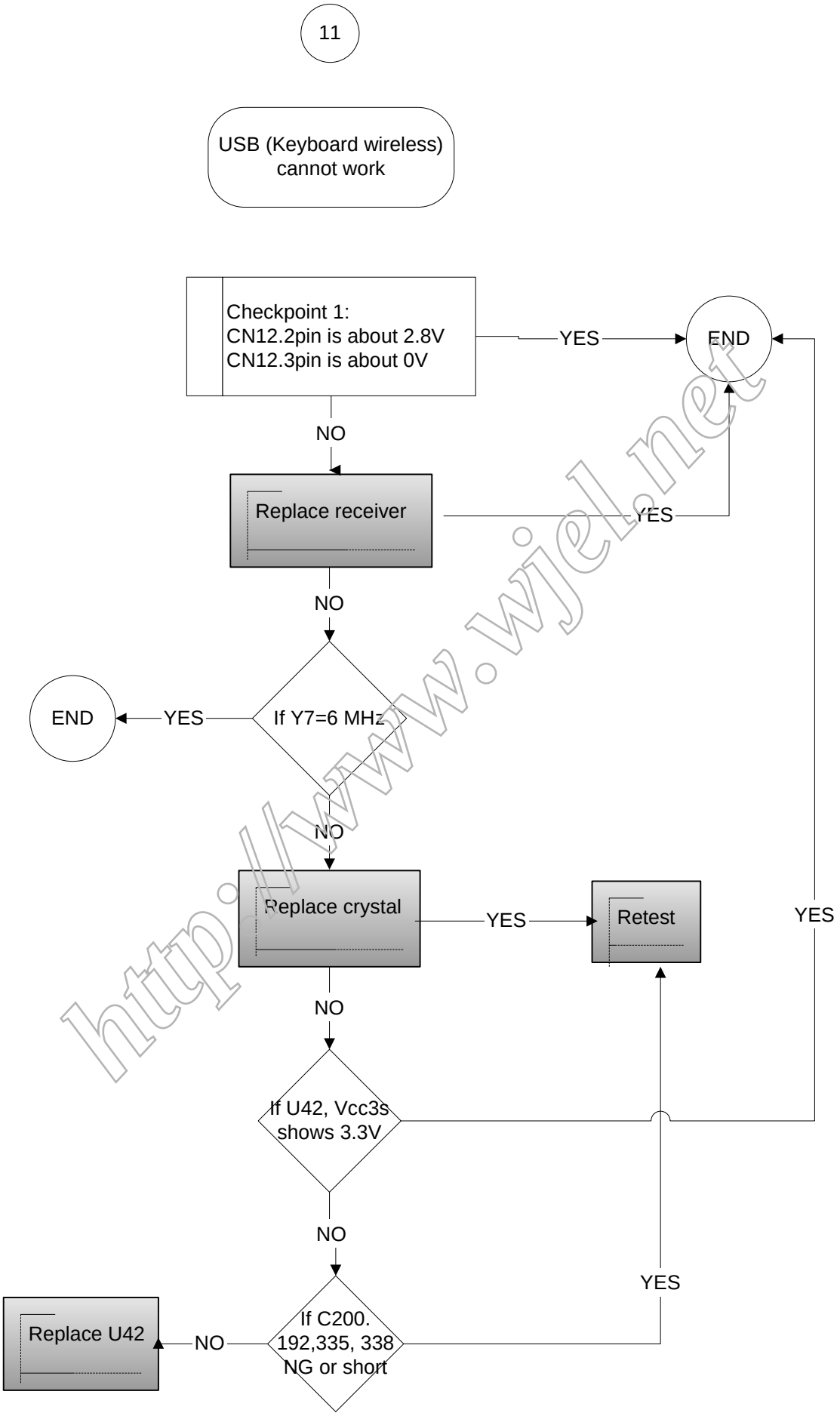


http://www.wjl.net



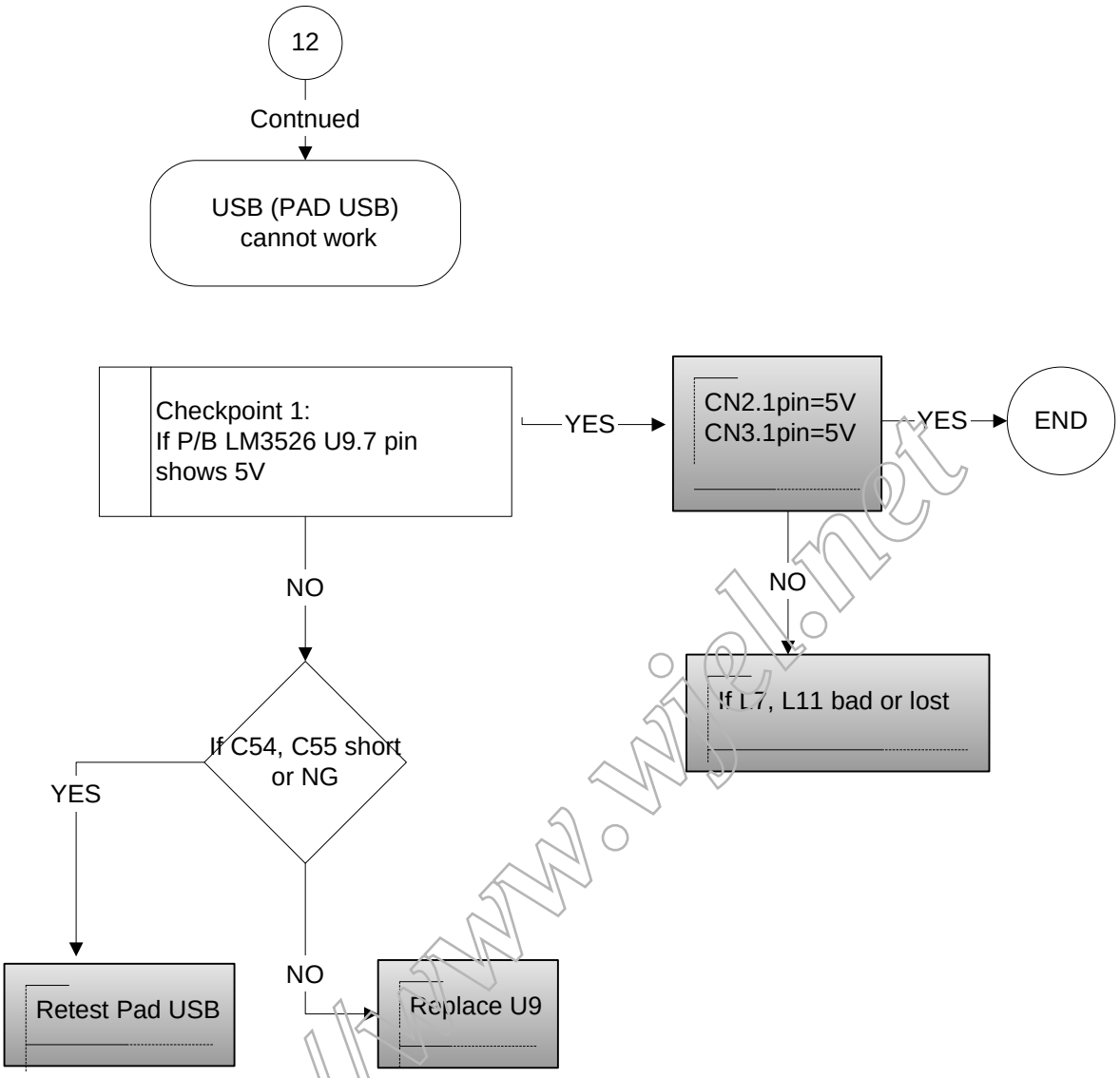
http://www.wiel.net

Repair Flow Chart



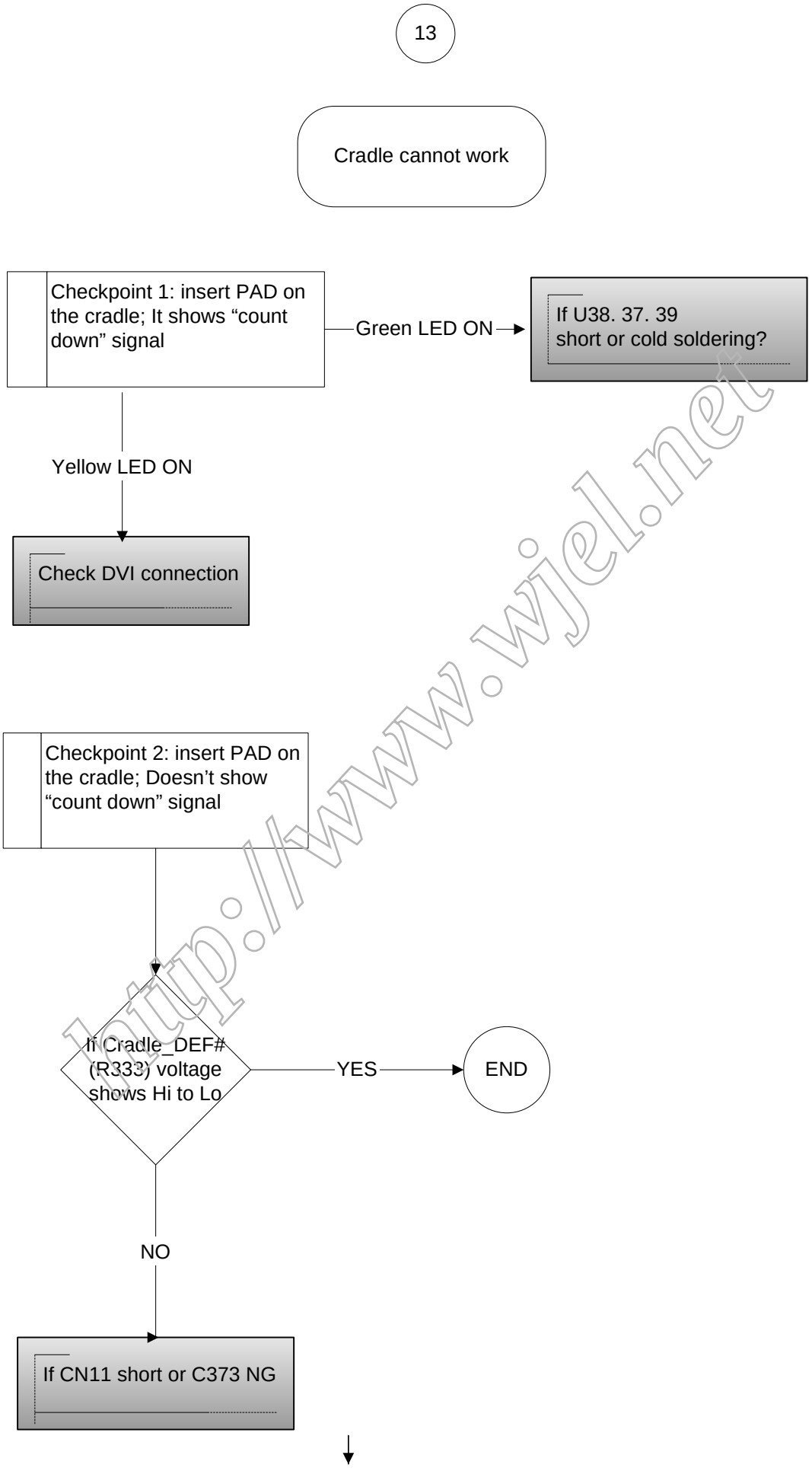
http://www.wjel.net

Repair Flow Chart



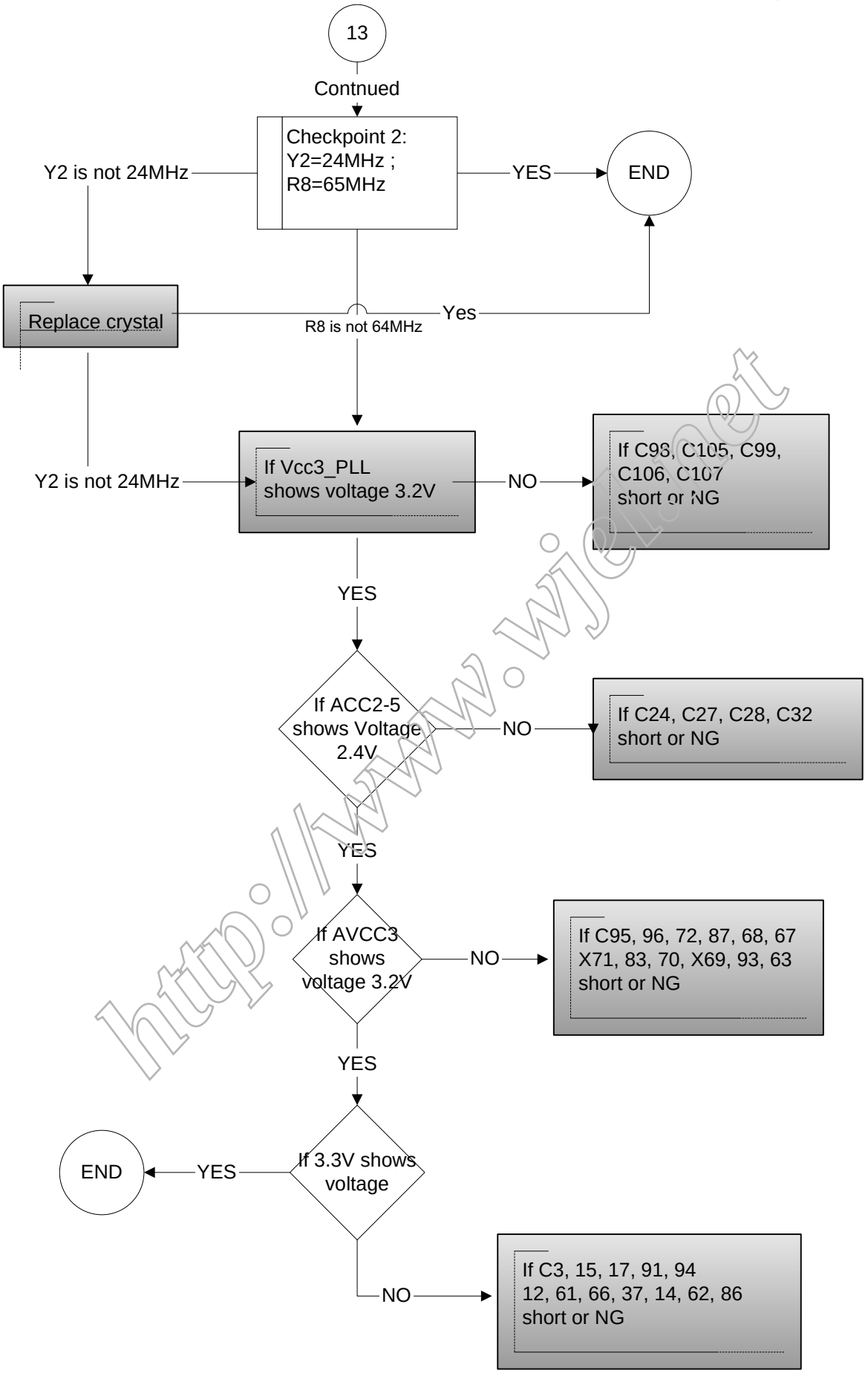
http://www.wiel.net

Repair Flow Chart


13
Cradle cannot work
Checkpoint 1: insert PAD on the cradle; It shows “count down” signal
Green LED ON
If U38. 37. 39 short or cold soldering?
Yellow LED ON
Check DVI connection
Checkpoint 2: insert PAD on the cradle; Doesn’t show “count down” signal
If Cradle_DEF# (R333) voltage shows Hi to Lo
YES
END
NO
If CN11 short or C373 NG

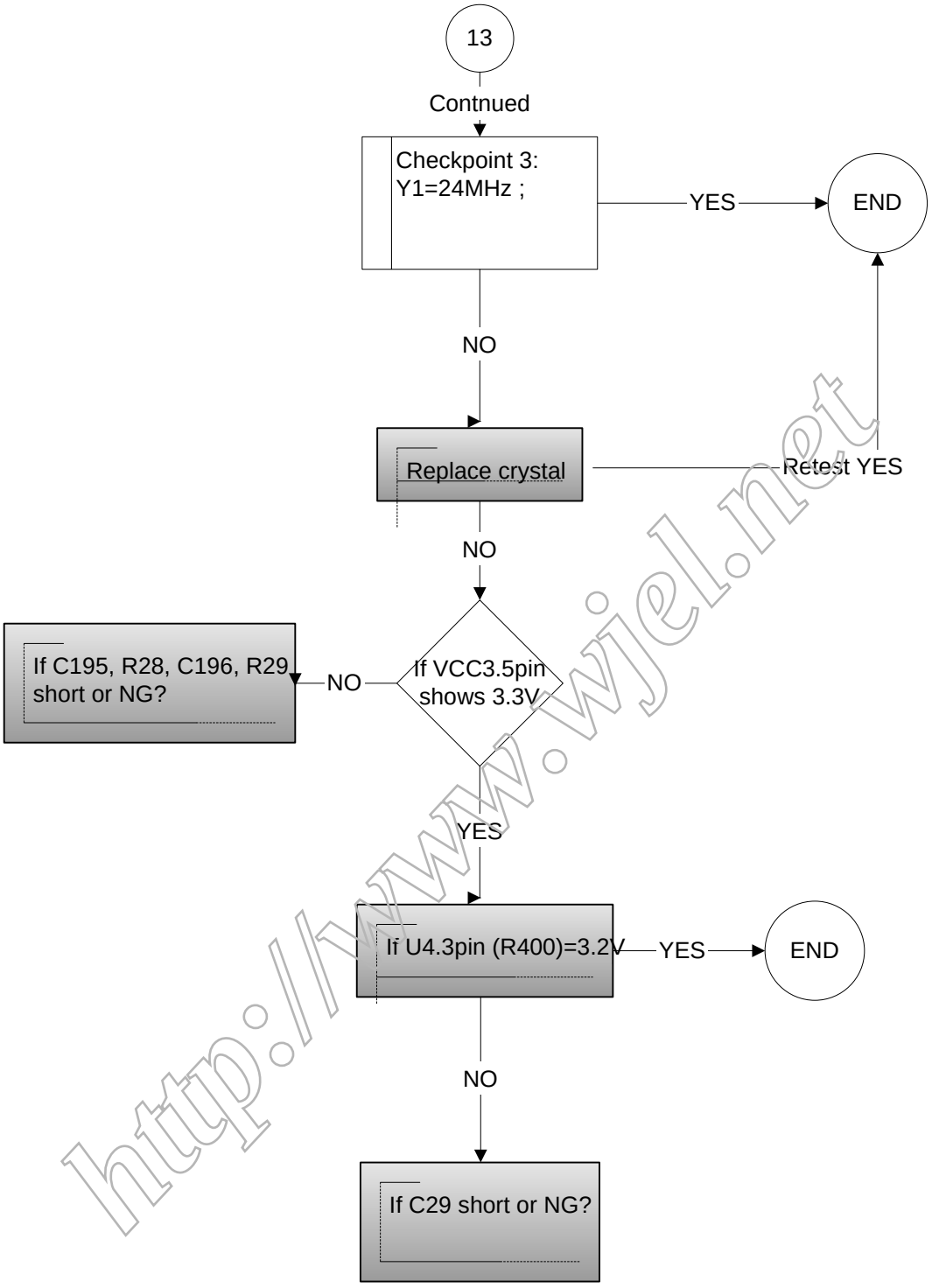
http://www.wjel.net

Repair Flow Chart

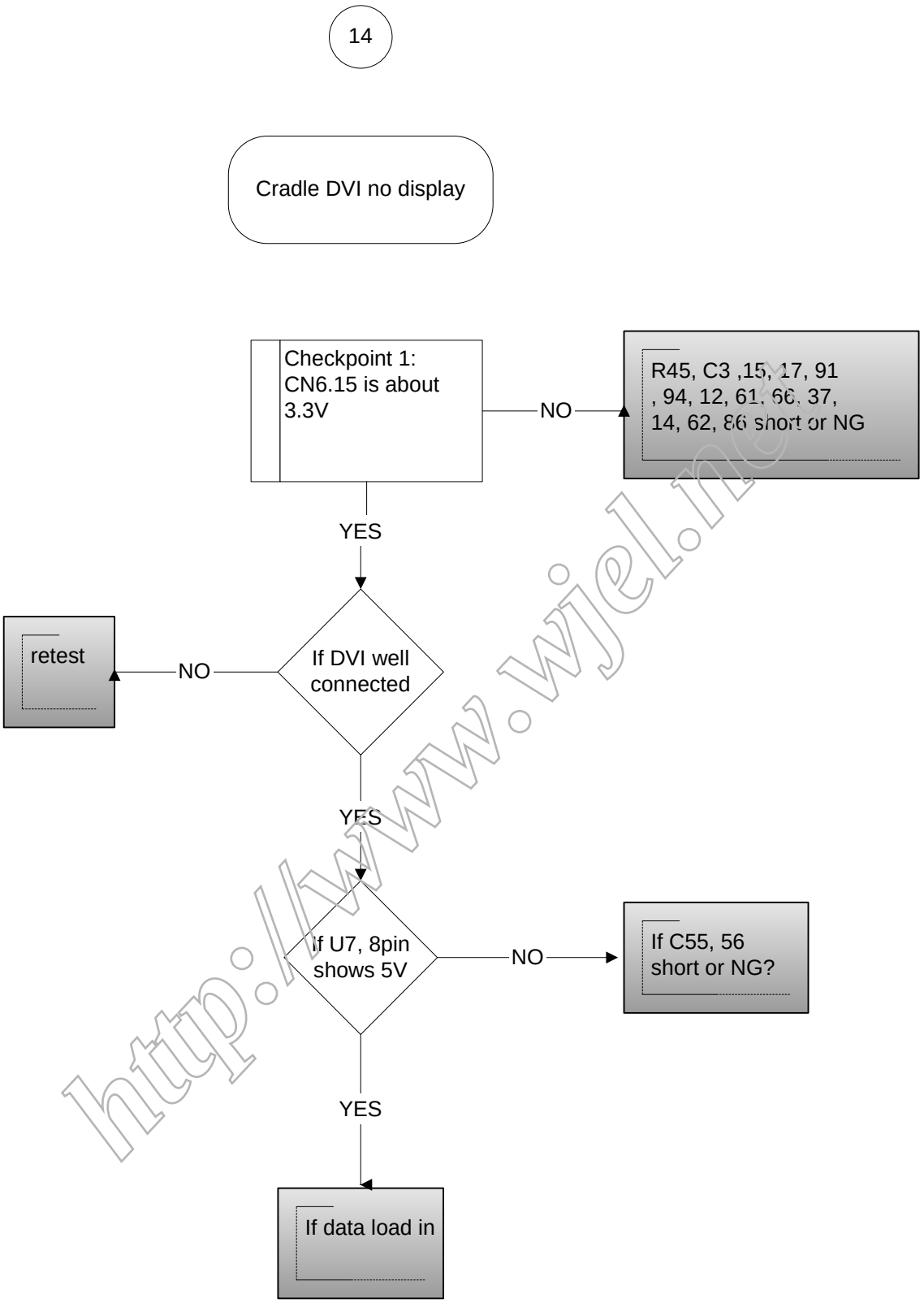


http://www.wjet.net

Repair Flow Chart

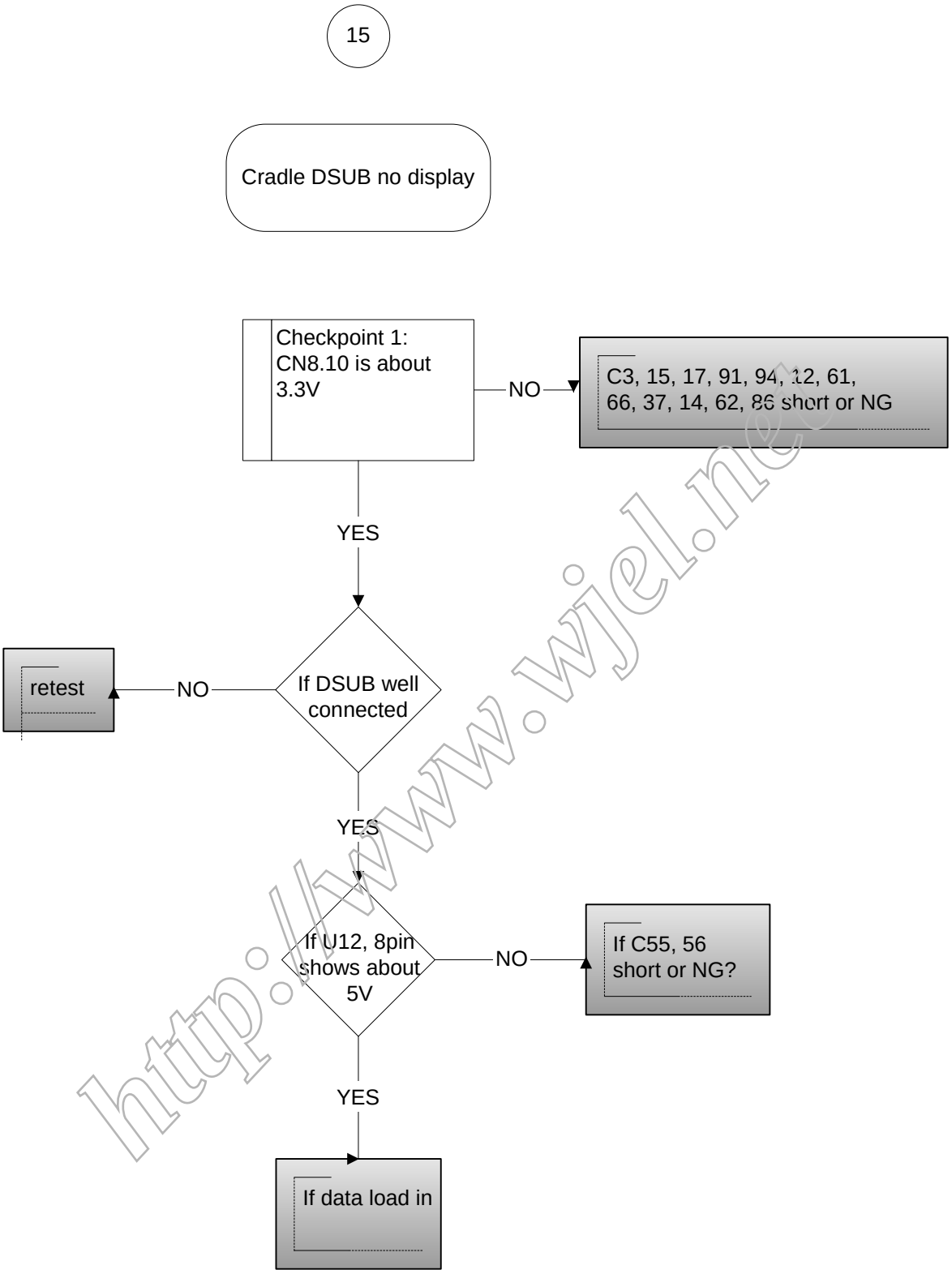


http://www.wjel.net



http://www.wjel.net

Repair Flow Chart



http://www.wjel.net

Repair Tips

0. Warning

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the unit via a wrist wrap with resistance. Keep components and tools also at the same potential !

1. Servicing of SMDs (Surface Mounted Devices)

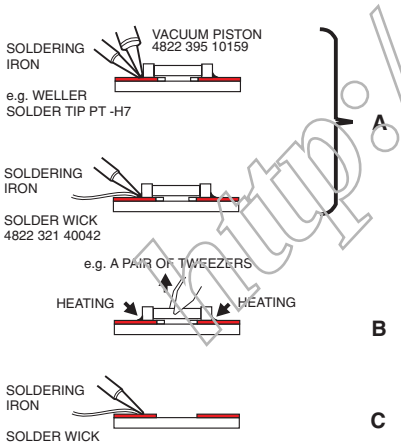
1.1 General cautions on handling and storage

- Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
- Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. The capacitance or resistance value of the SMDs may be affected by this.
- Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

- Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 1A)

Fig. 1 DISMOUNTING



- While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 1 B).
- Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 1C).

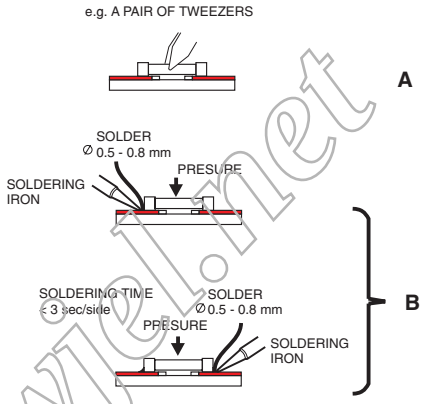
1.3 Caution on removal

- When handling the soldering.iron. use suitable pressure and be careful.
- When removing the chip, do not use undue force with the pair of tweezers.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250 °C).
- The chip, once removed, must never be reused.

1.4 Attachment of SMDs

- Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig.2A).
- Next complete the soldering of the terminals of the component (see Fiq. 2B).

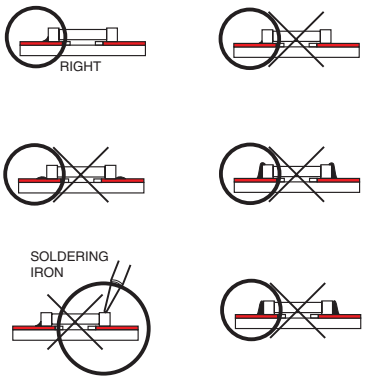
Fig. 2 MOUNTING



2. Caution when attaching SMDs

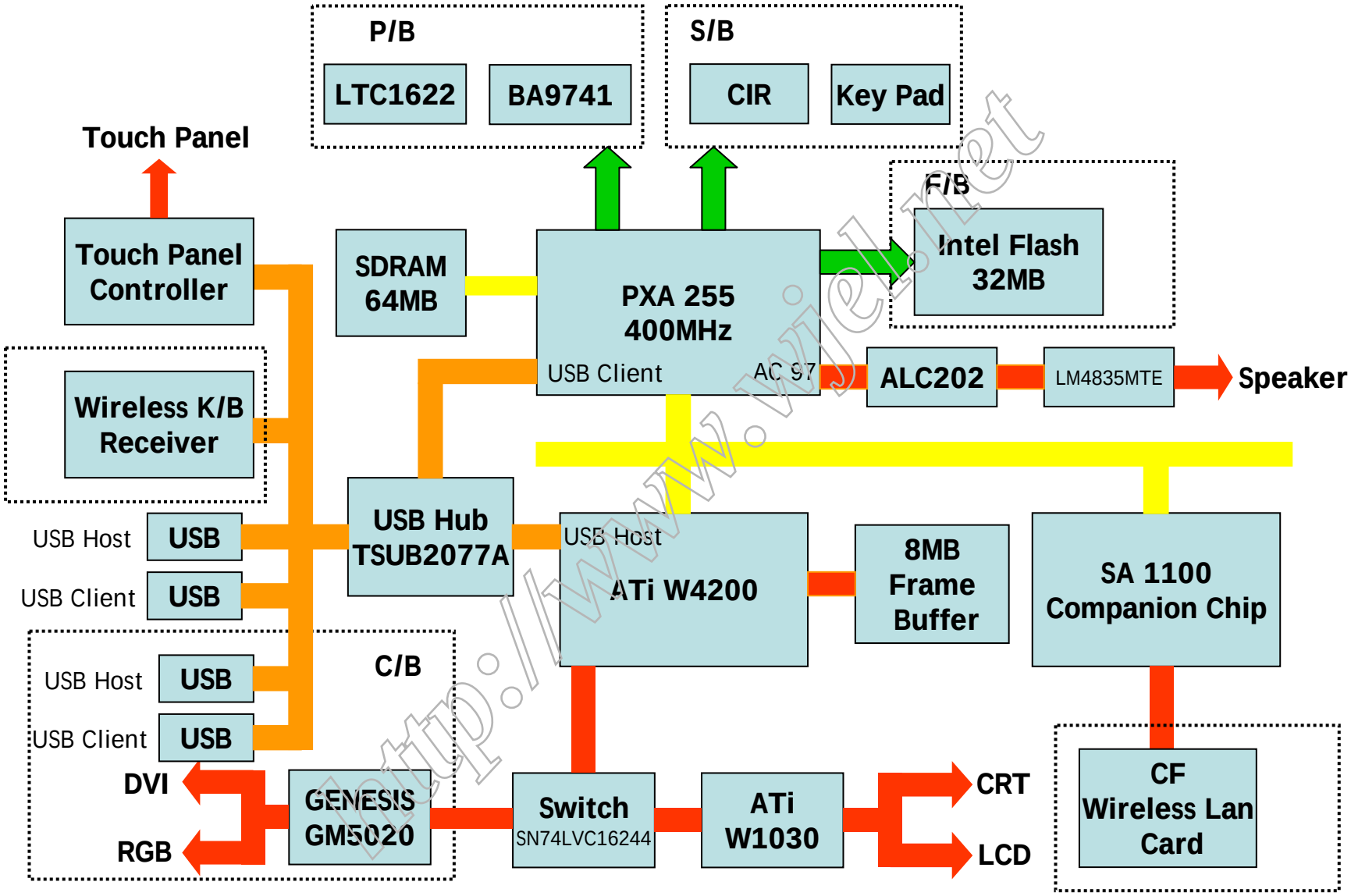
- When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible, care must be taken to avoid damage to the terminals of the SMDs themselves.
- Keep the SMD's body in contact with the printed board when soldering.
- The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250 °C).
- Soldering should not be done outside the solder land.
- Soldering flux (of rosin) may be used, but should not be acidic.
- After soldering, let the SMD cool down gradually at room temperature.
- The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 3).

Fig. 3 Examples



http://www.wel.net

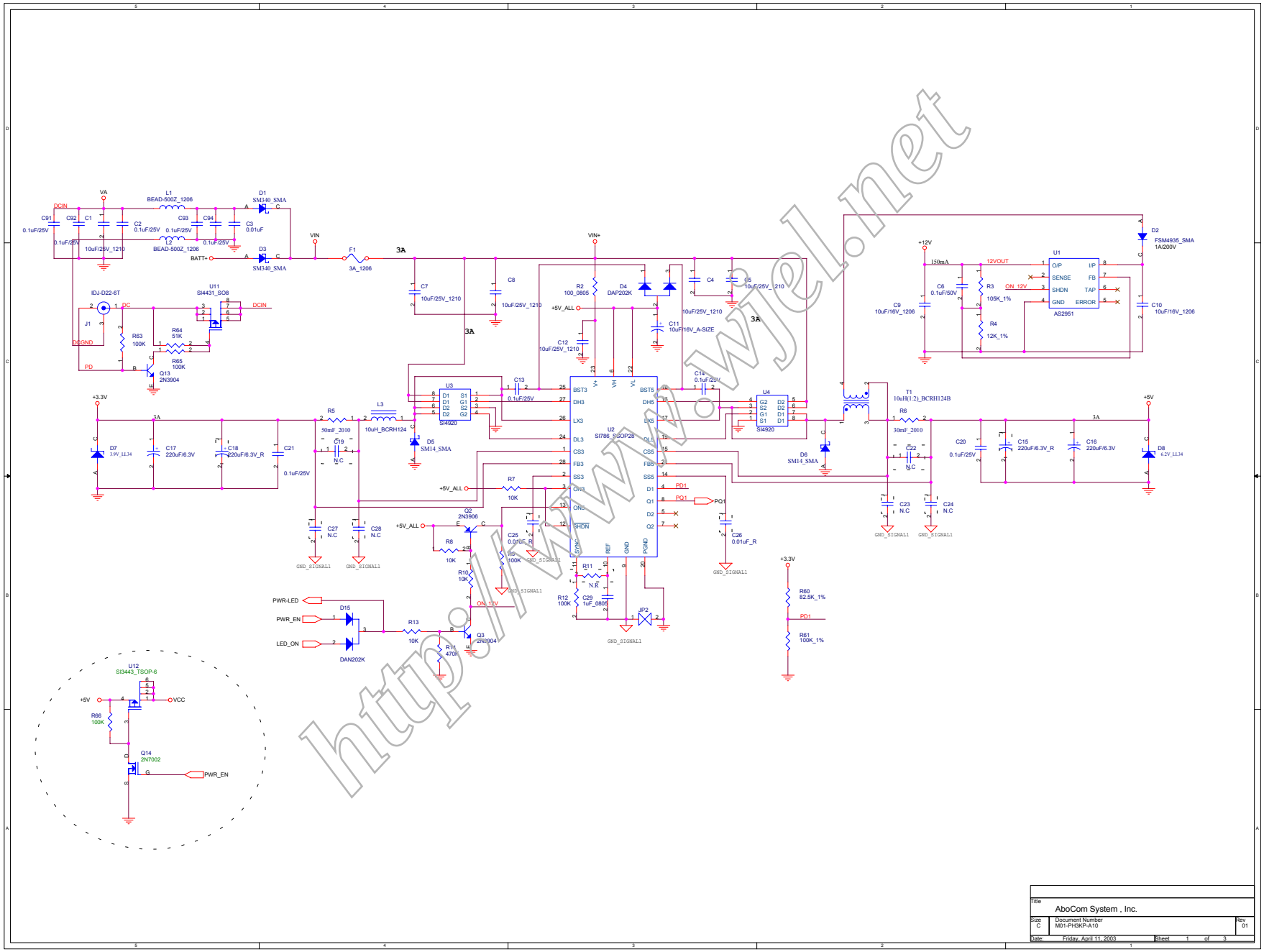
Function Block Diagram



http://www.wiel.net

Power Board Diagram

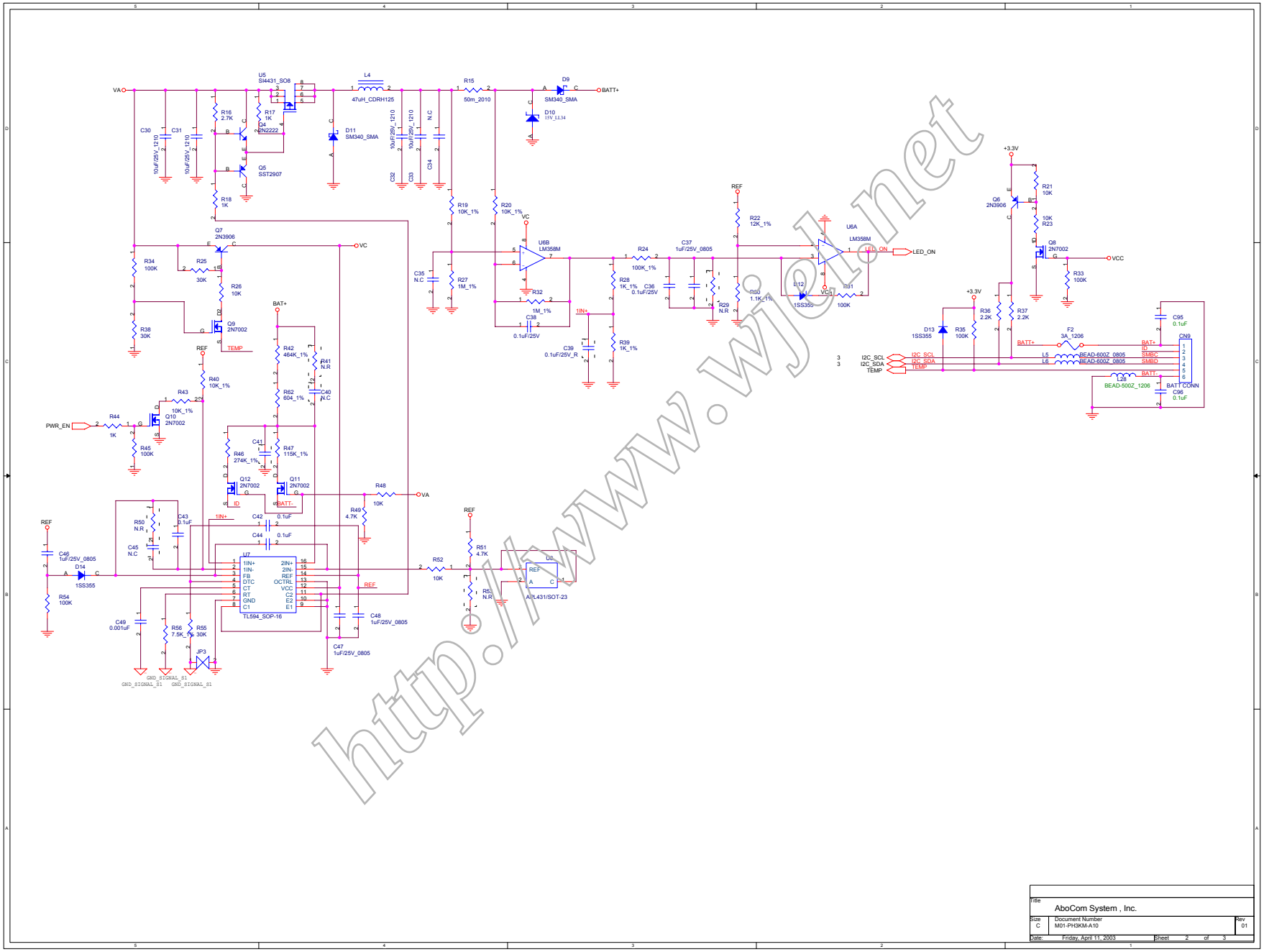
Go to cover page



http://www.wjel.net

Power Board Diagram

Go to cover page

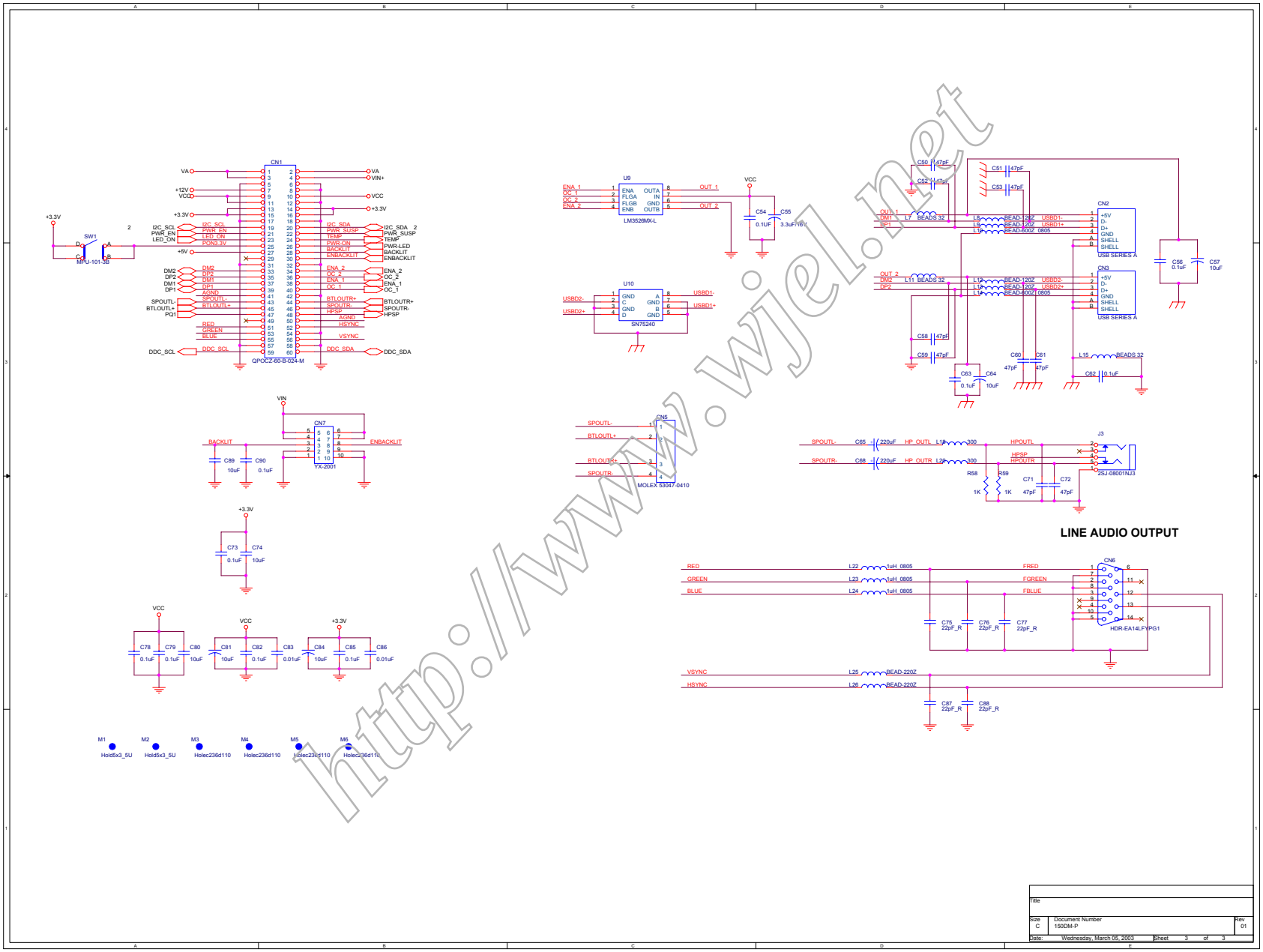


http://www.wjtnet

Title	AboCom System , Inc.	
Size C	Document Number M01-PH3KM-A10	Rev 01
Date: Friday, April 11, 2003	Sheet 2 of 3	

Power Board Diagram

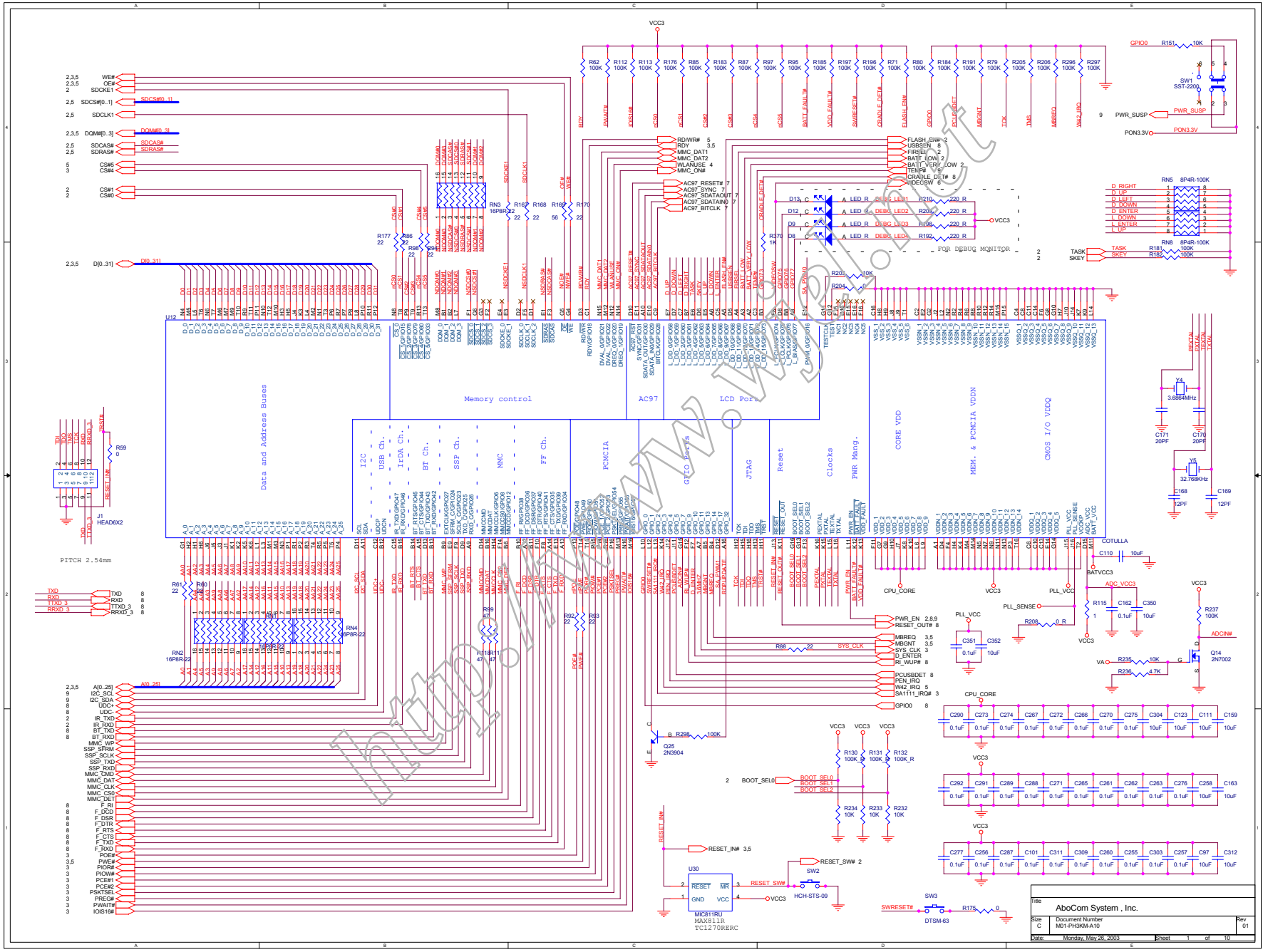
Go to cover page



http://www.wjel.net

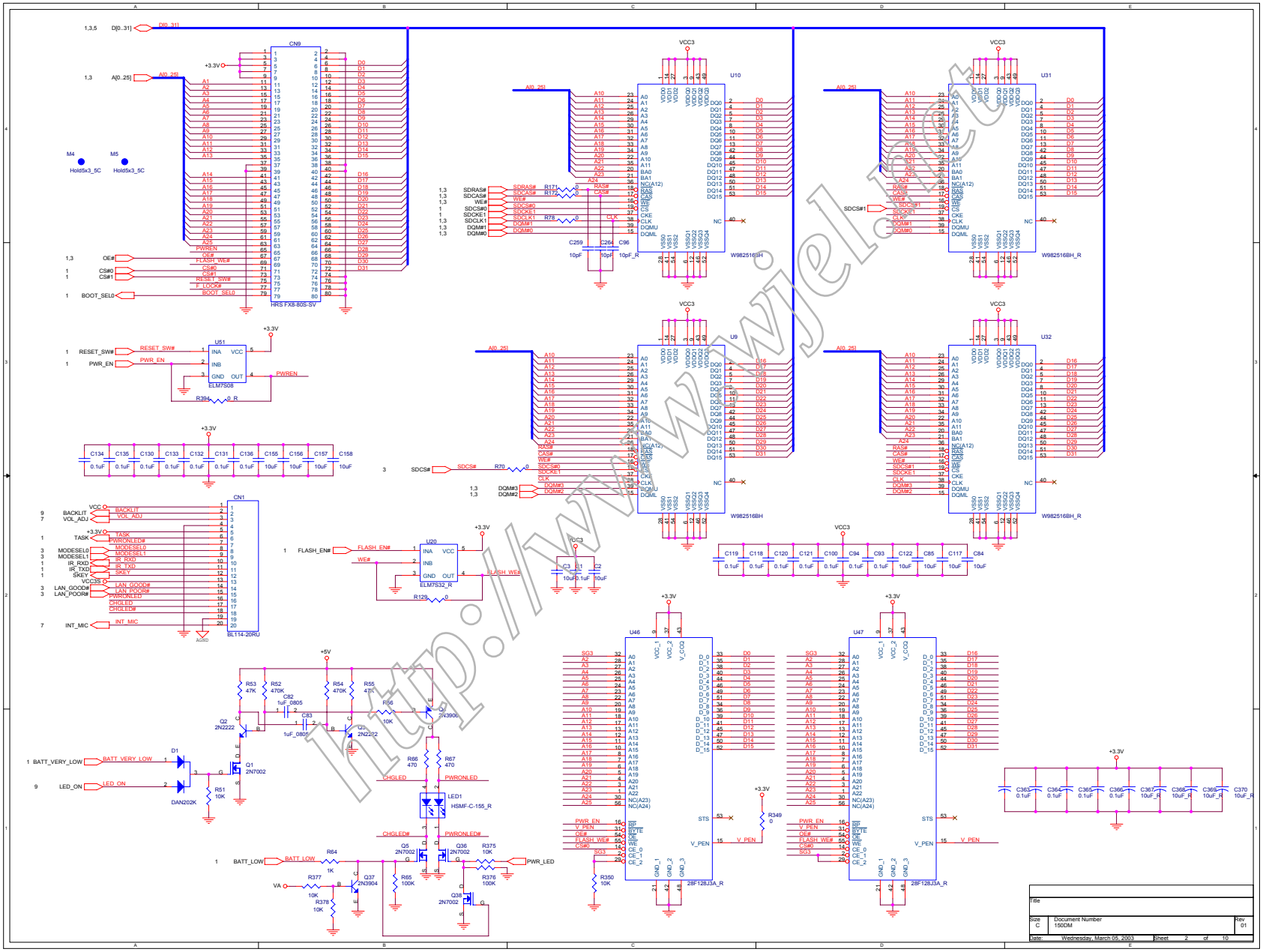
Main Board Diagram

Go to cover page



Main Board Diagram

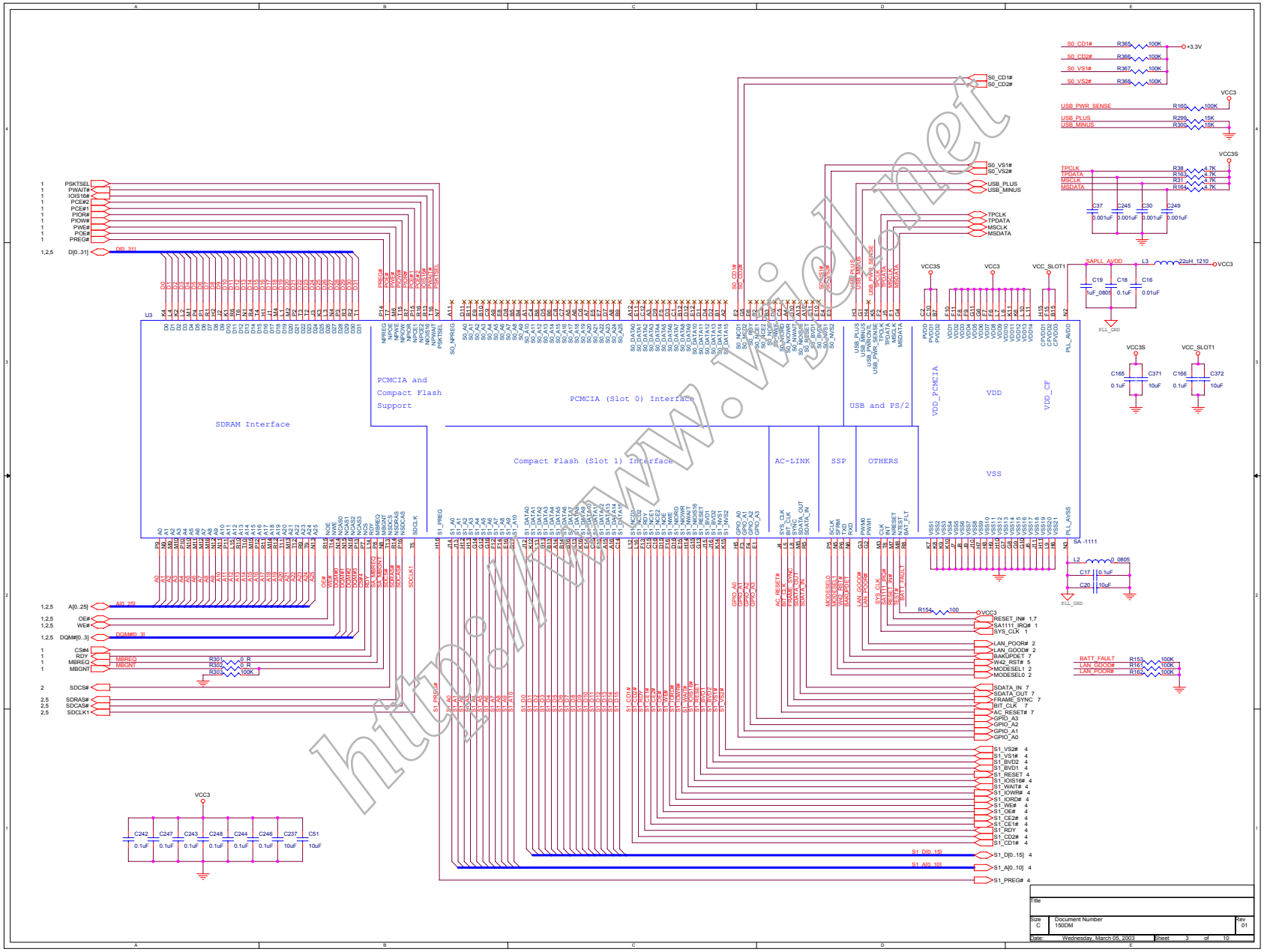
Go to cover page



http://www.wiellect

Main Board Diagram

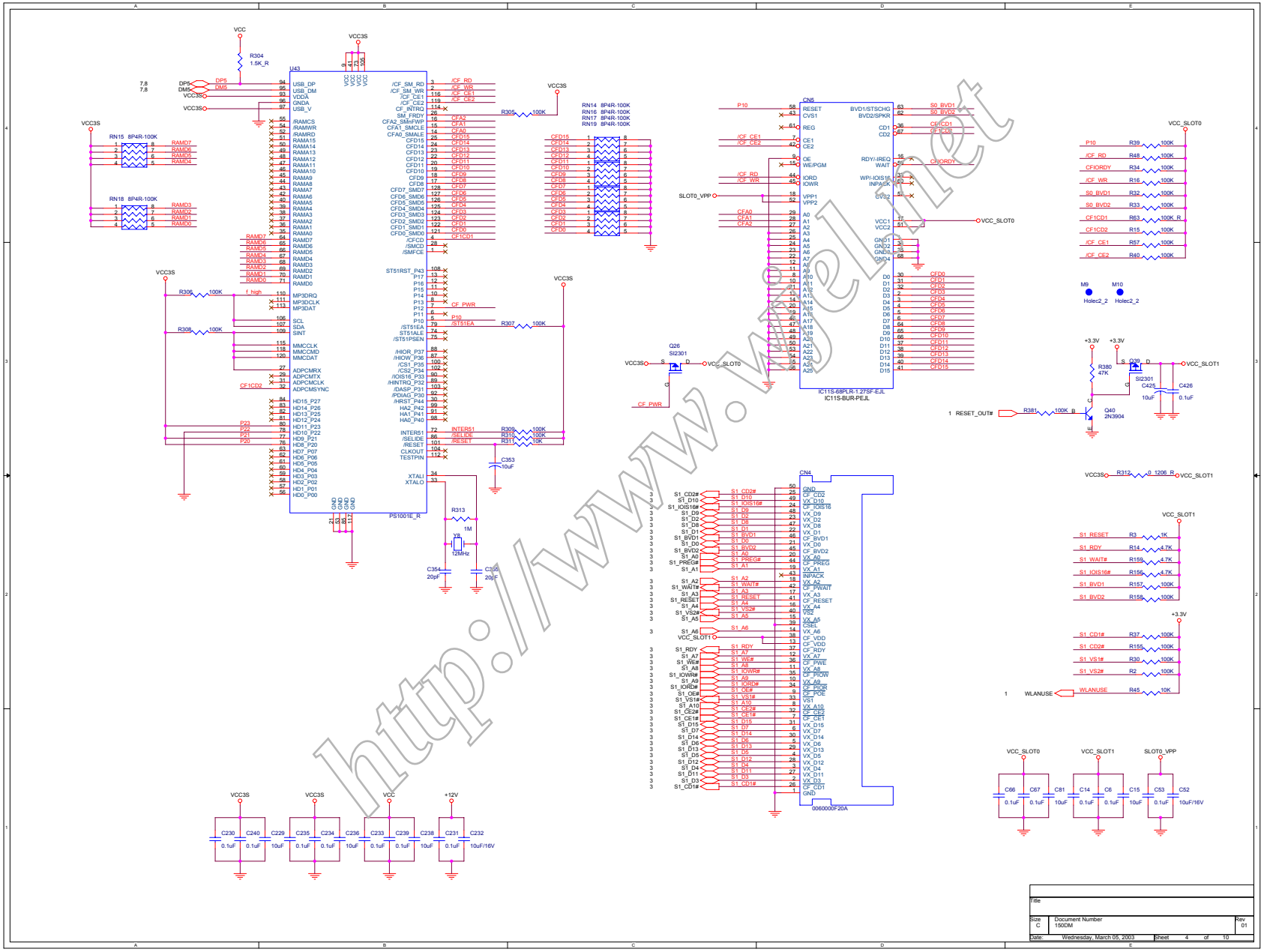
Go to cover page



http://www.wiki.net

Main Board Diagram

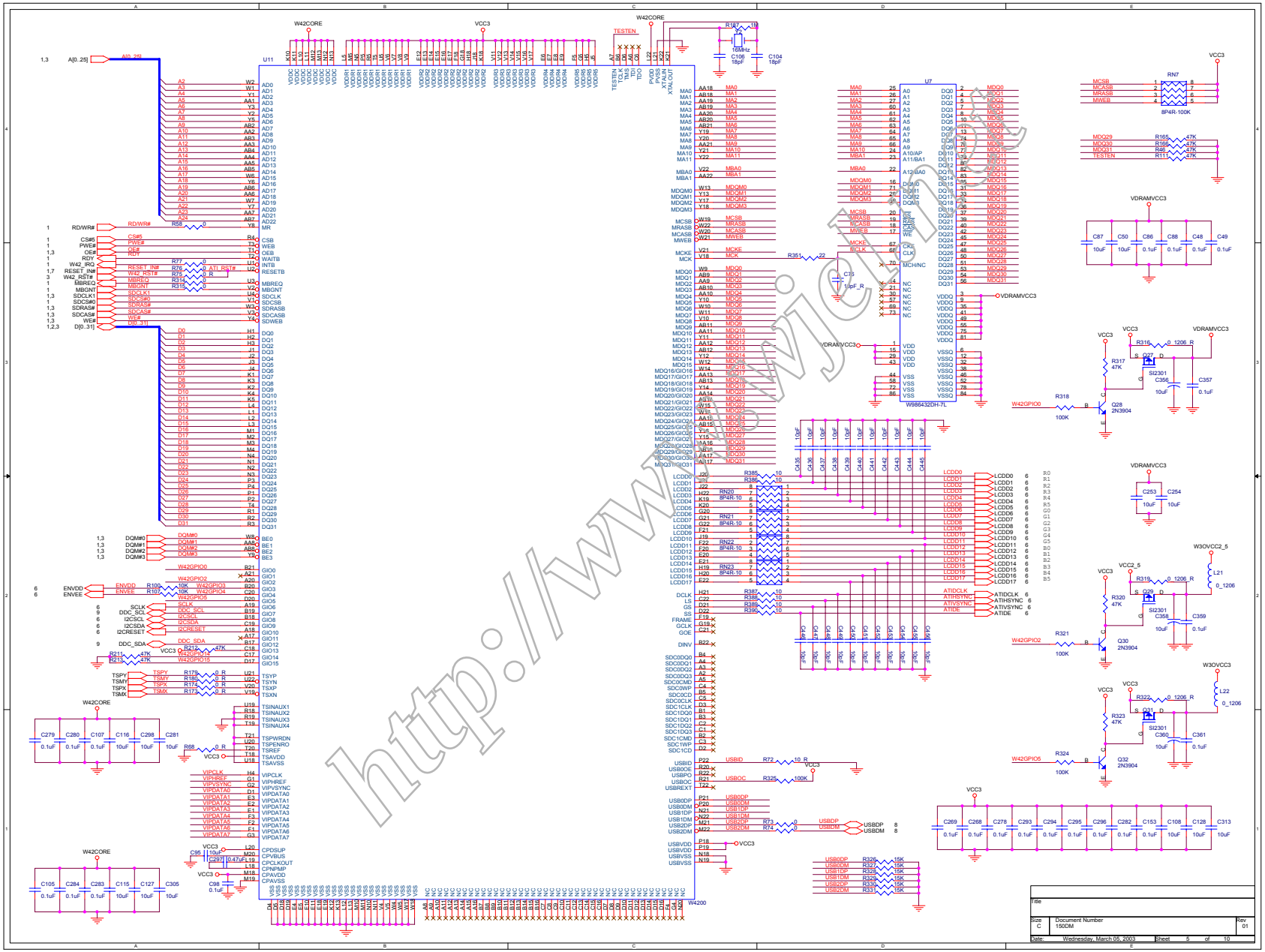
Go to cover page



http://www.wellnet

Main Board Diagram

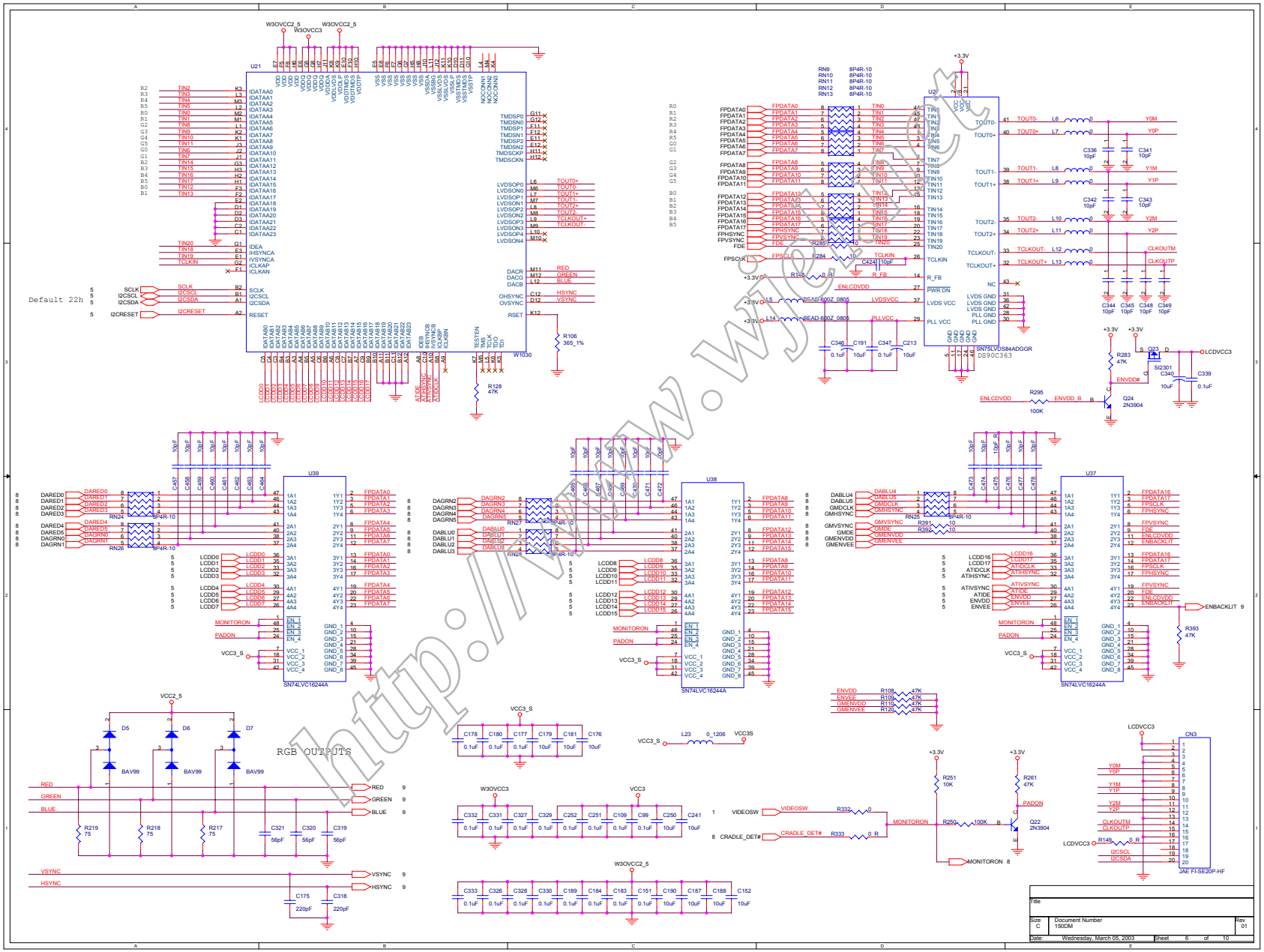
Go to cover page



http://www.vinafix.vn

Main Board Diagram

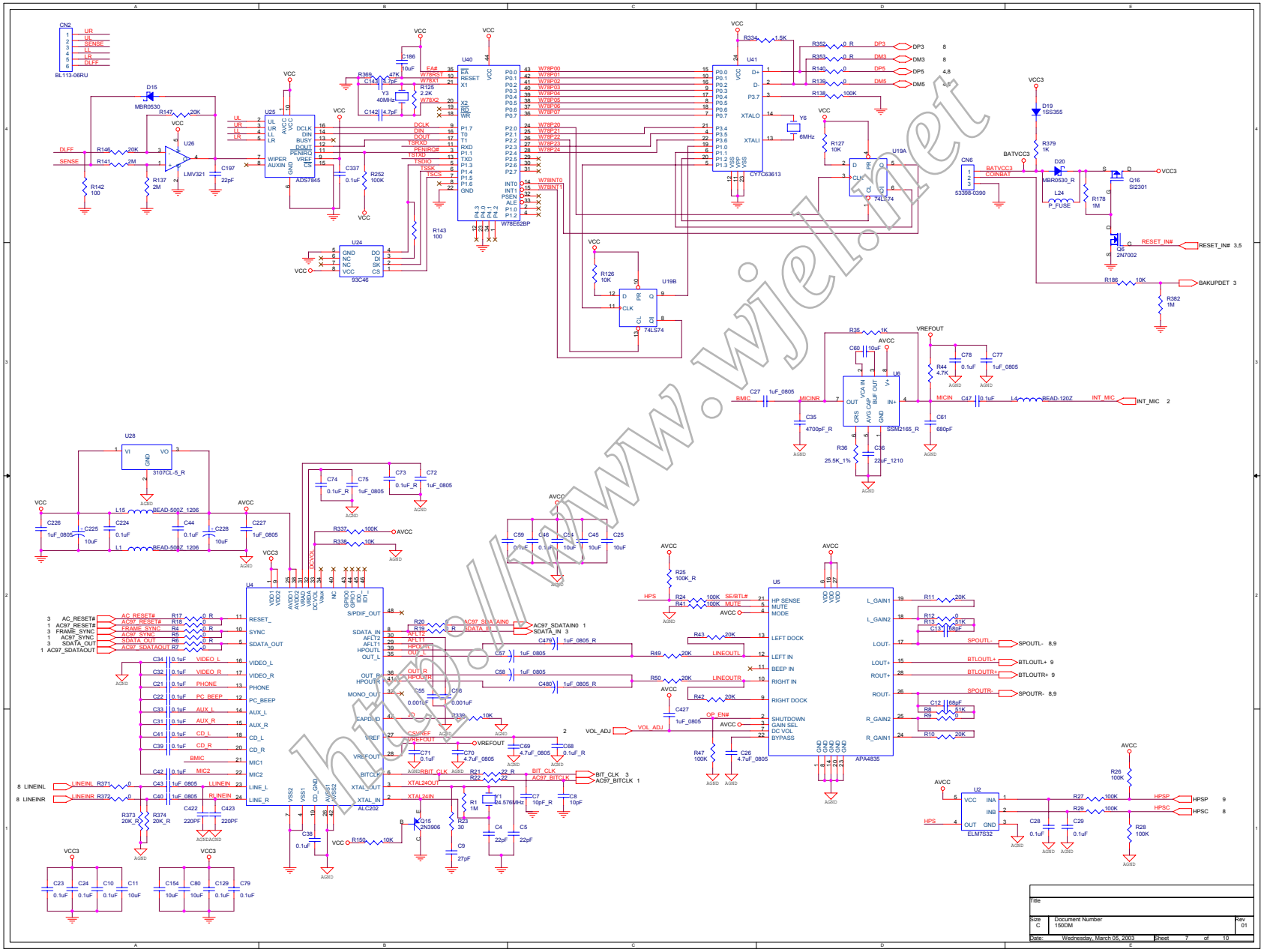
Go to cover page



http://www.wiencir.com

Main Board Diagram

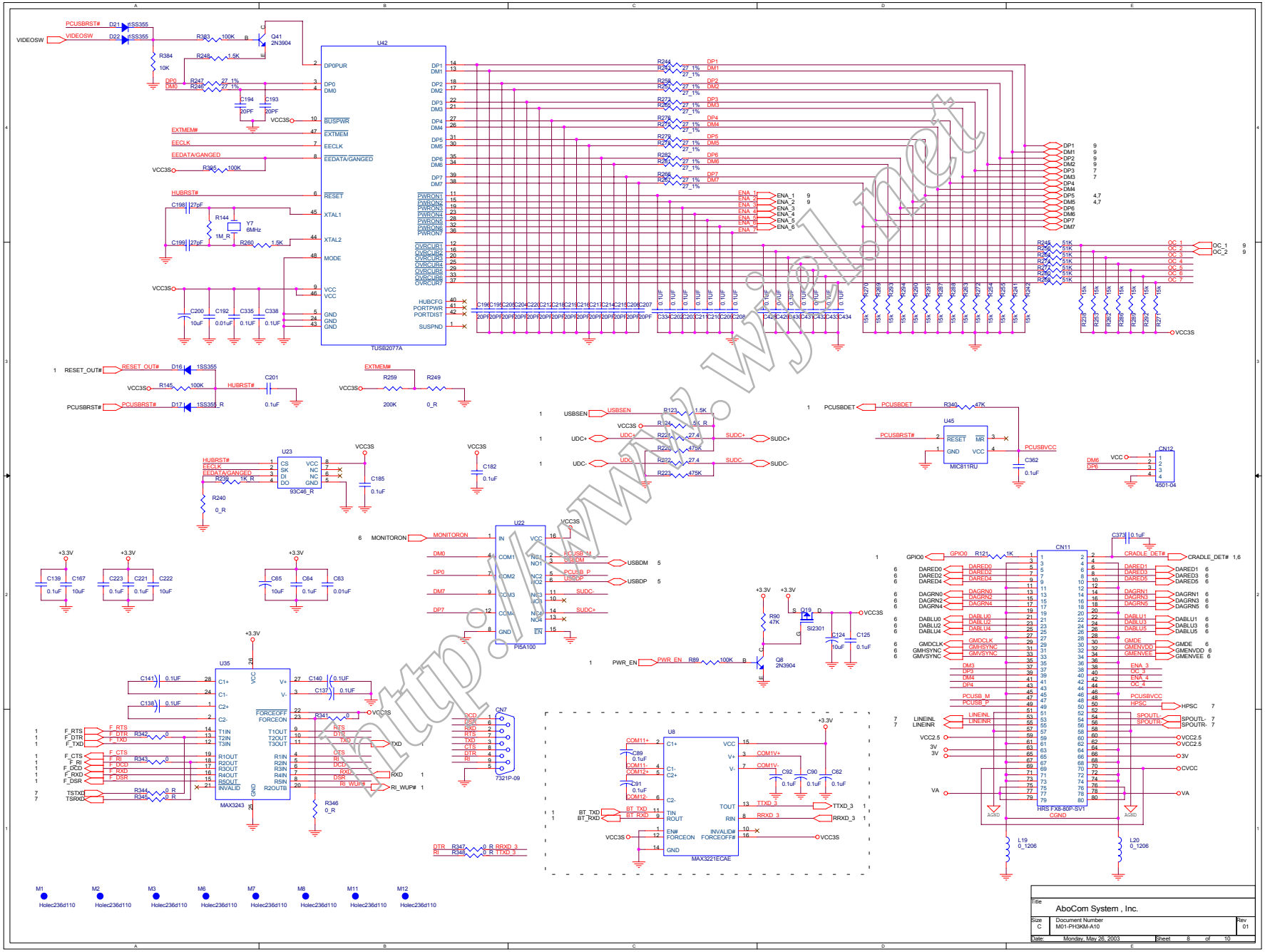
Go to cover page



http://www.wiel.net

Main Board Diagram

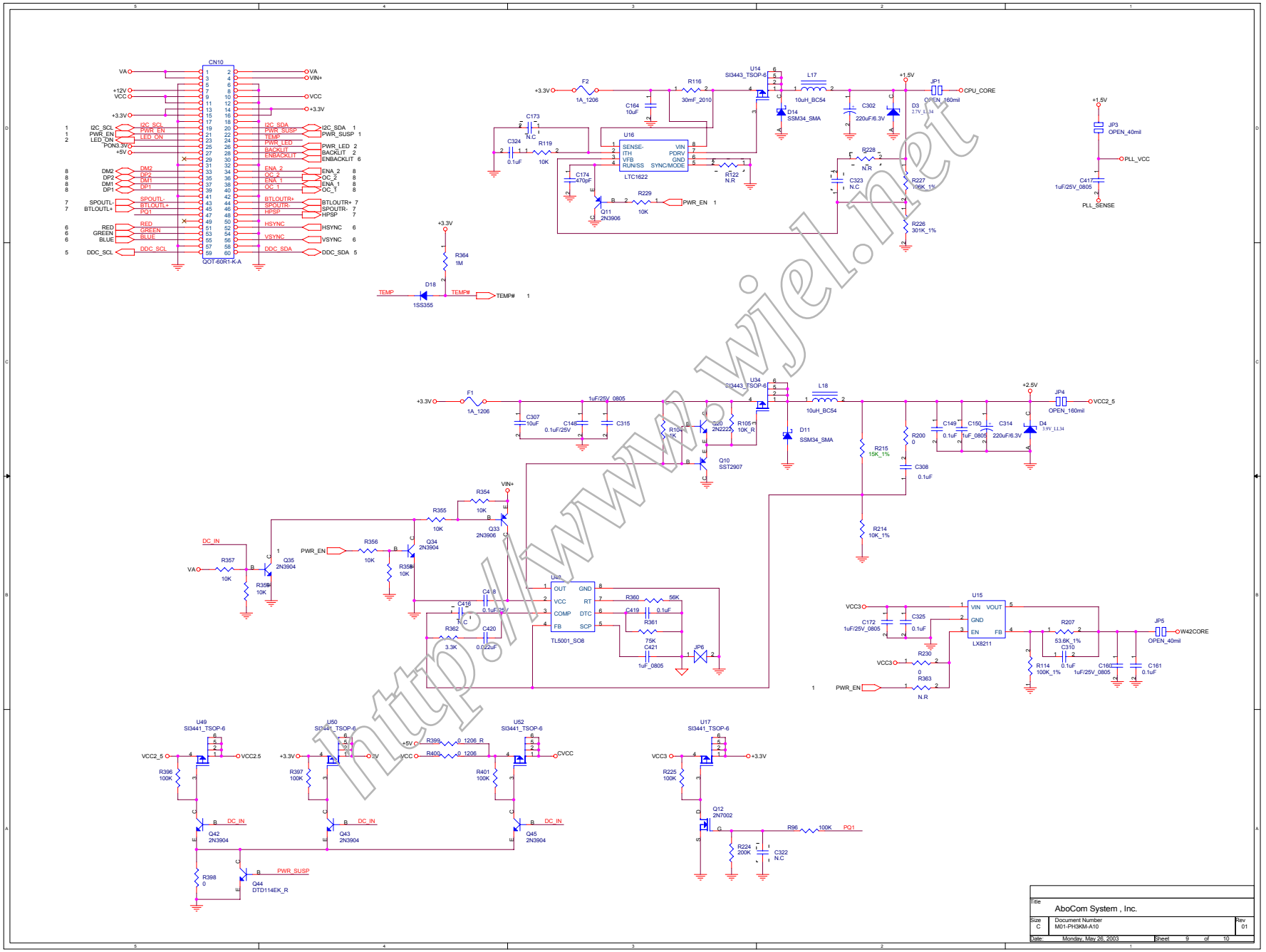
Go to cover page



http://www.wjlnet

Main Board Diagram

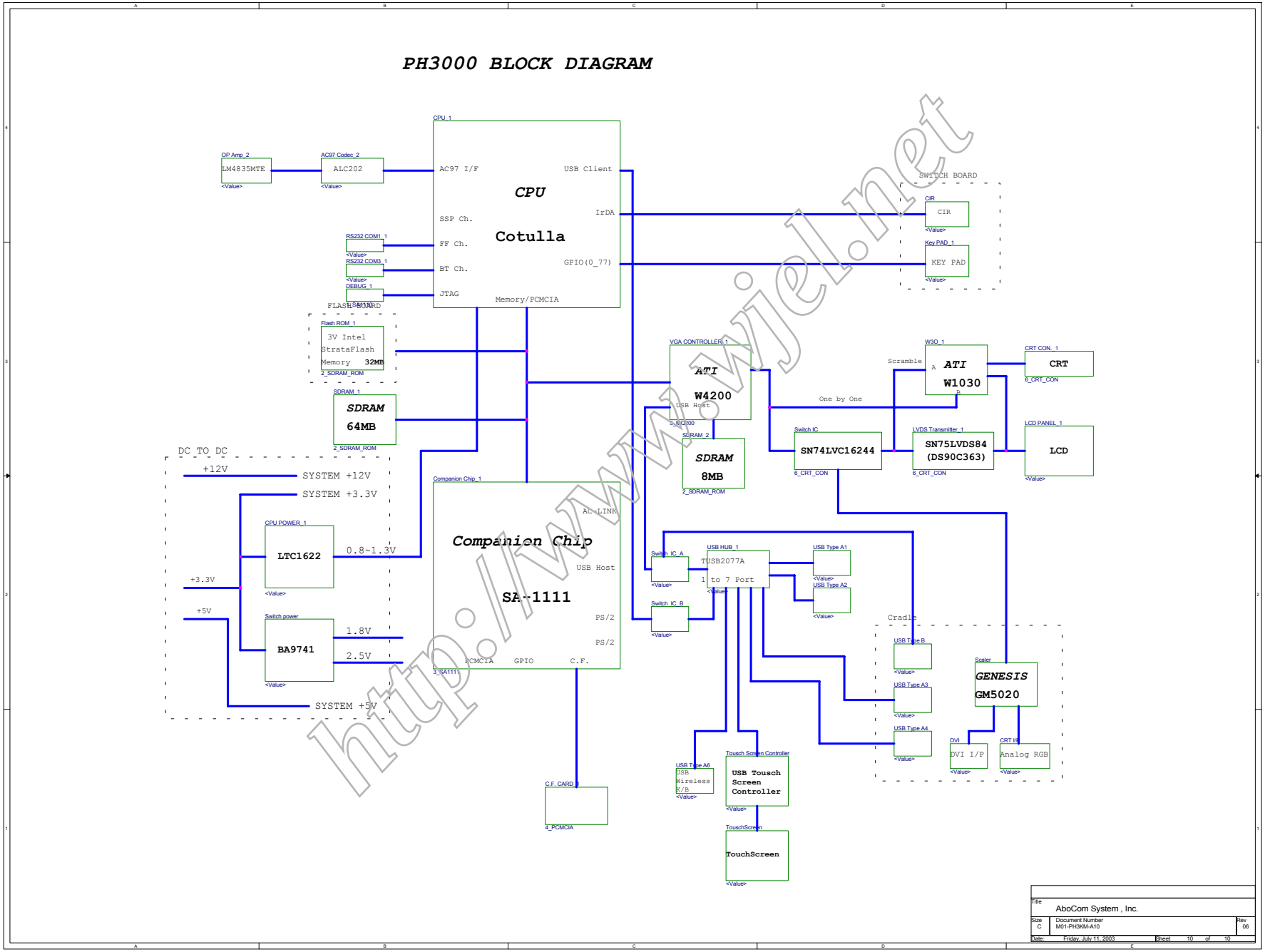
Go to cover page



http://www.wiel.net

Main Board Diagram

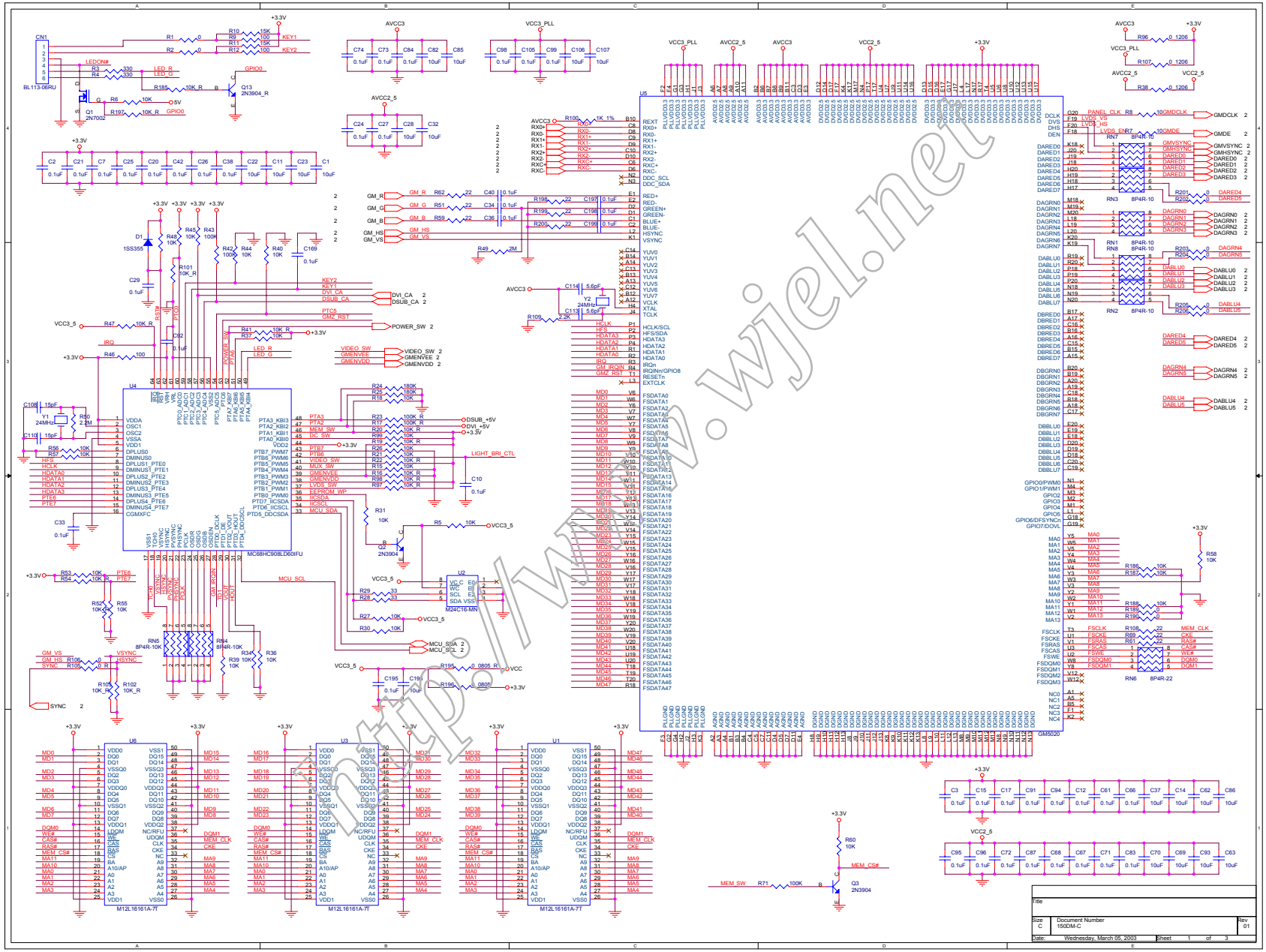
Go to cover page



http://www.wiel.net

Cradle Board Diagram

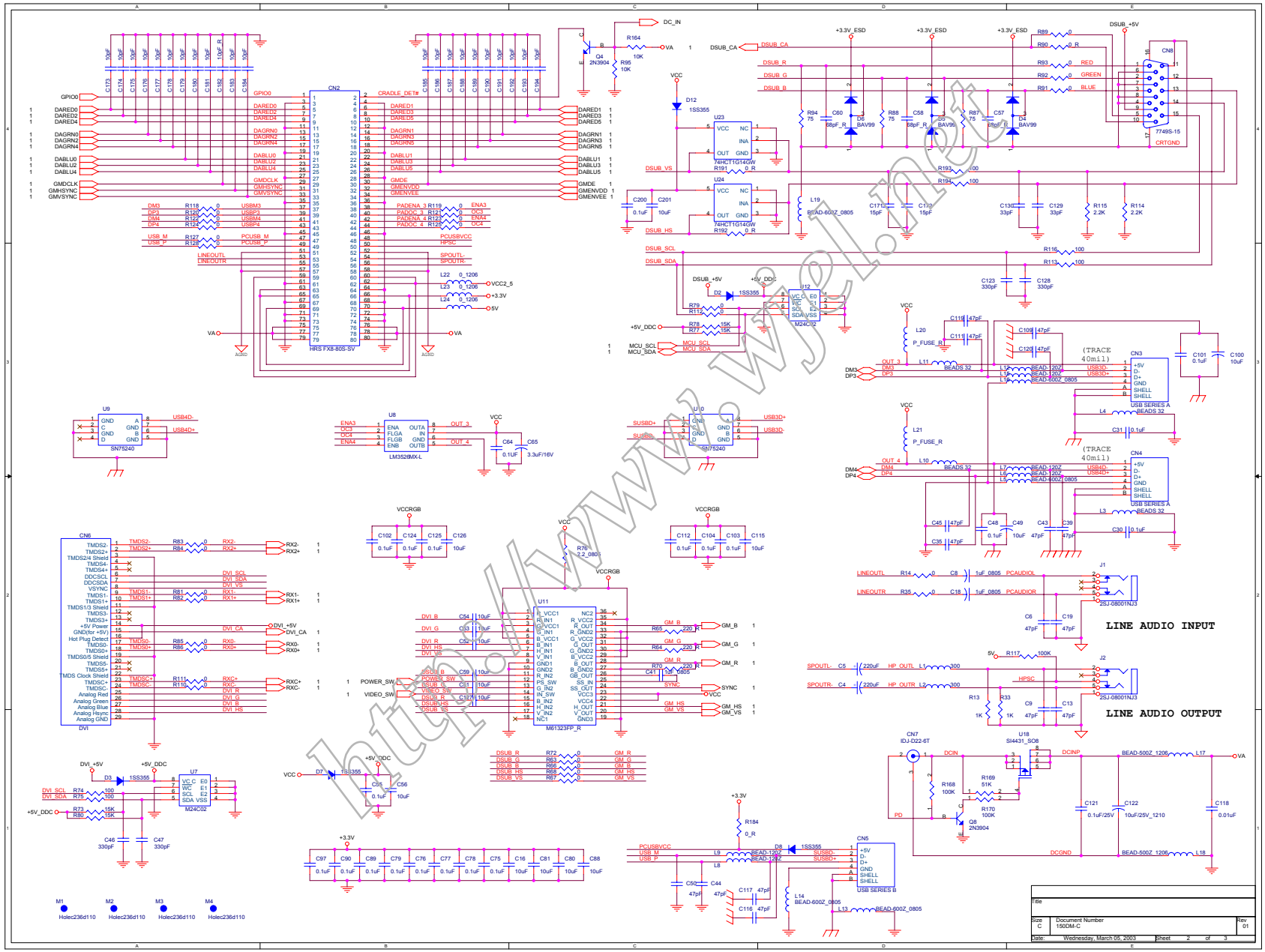
Go to cover page



http://www.wiel.net

Cradle Board Diagram

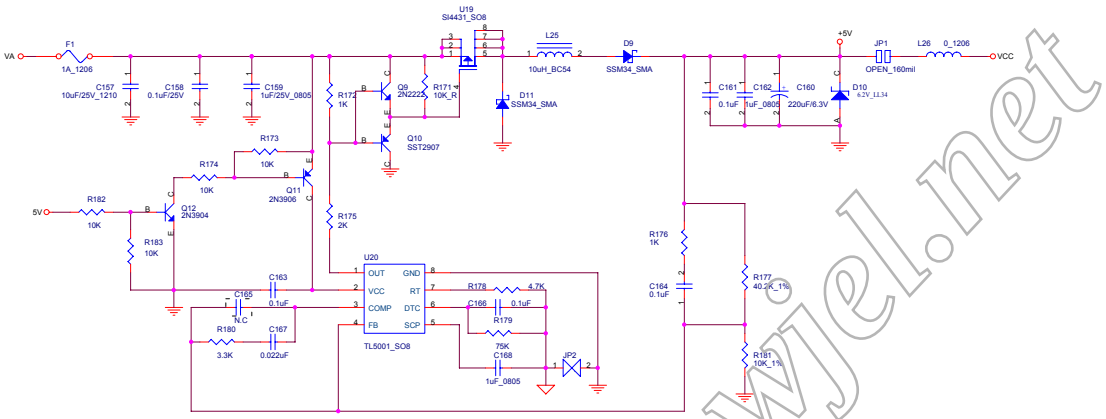
Go to cover page



http://www.wjel.net

Cradle Board Diagram

Go to cover page

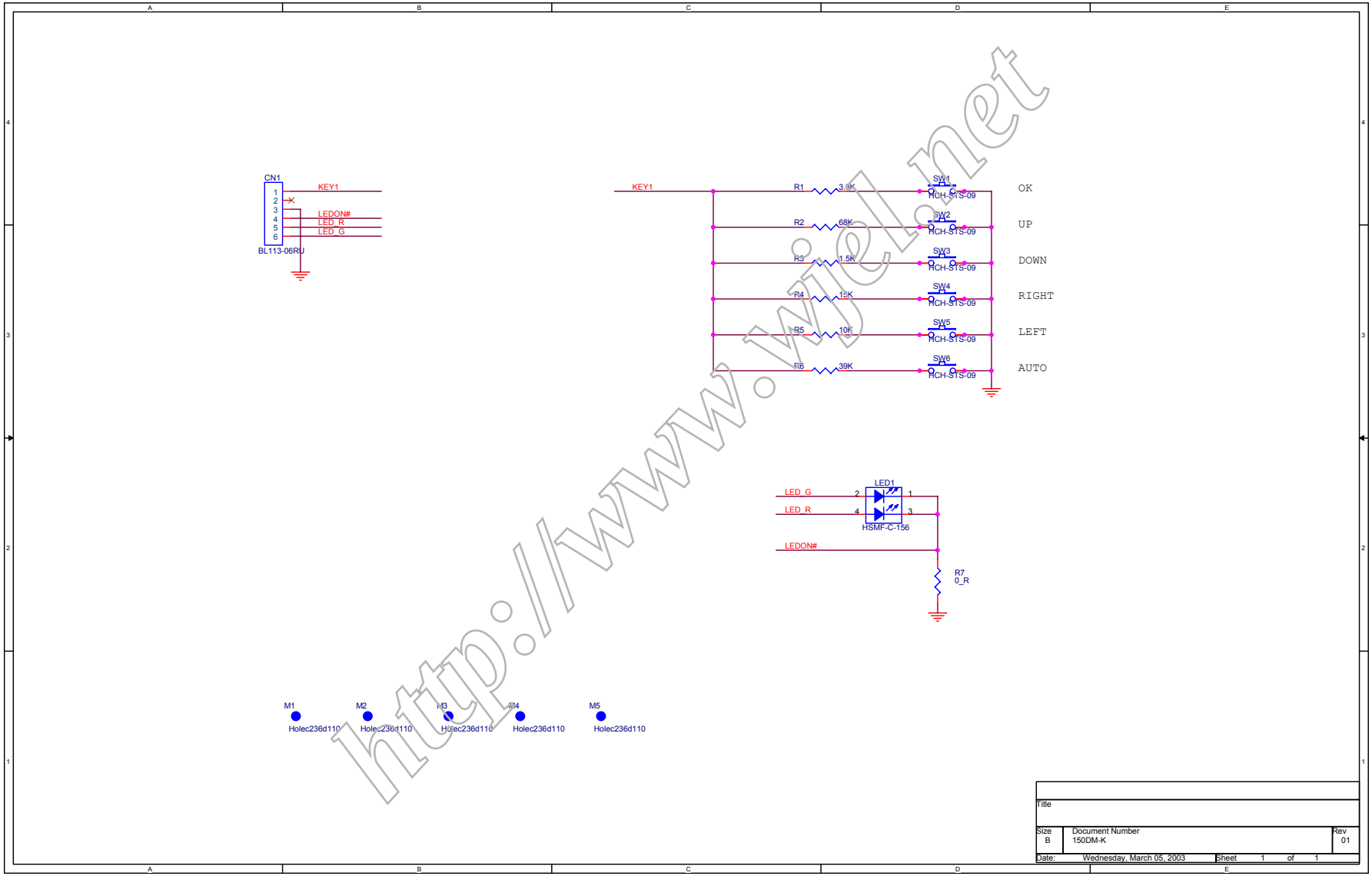


http://www.wjel.net

Title	AboCom System , Inc.	
Size C	Document Number M01-PH3KC-A10	Rev 01
Date: Friday, April 11, 2003	Sheet 3 of 3	

Key Board Diagram

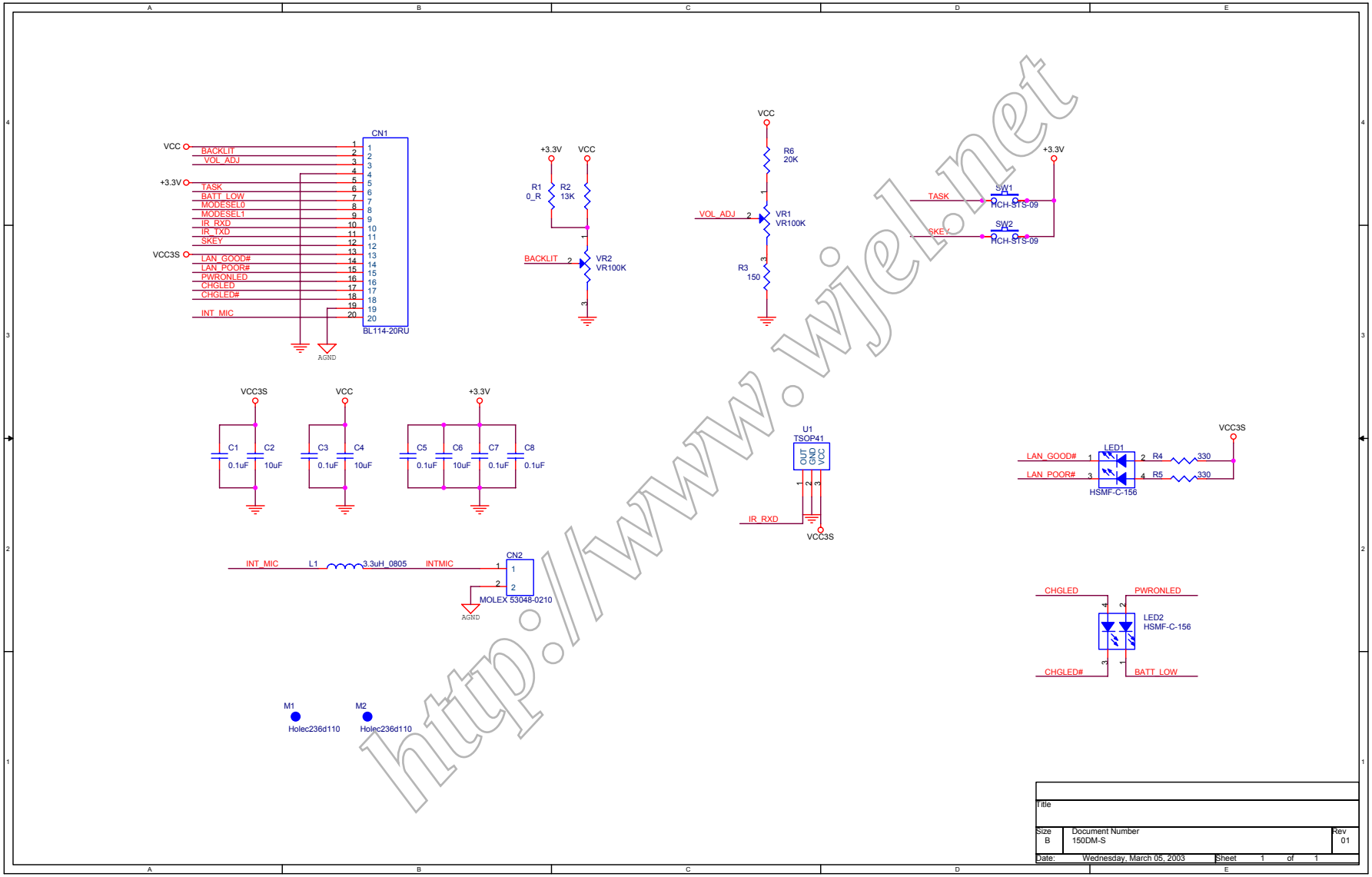
Go to cover page



http://www.wiel.net

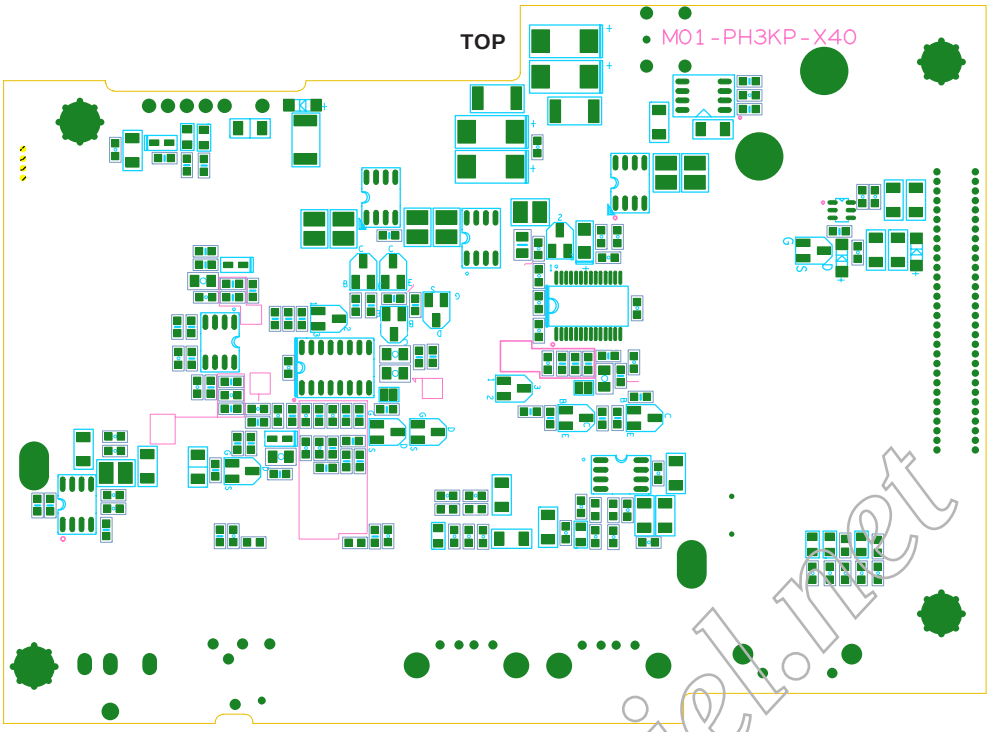
Switch Board Diagram

Go to cover page

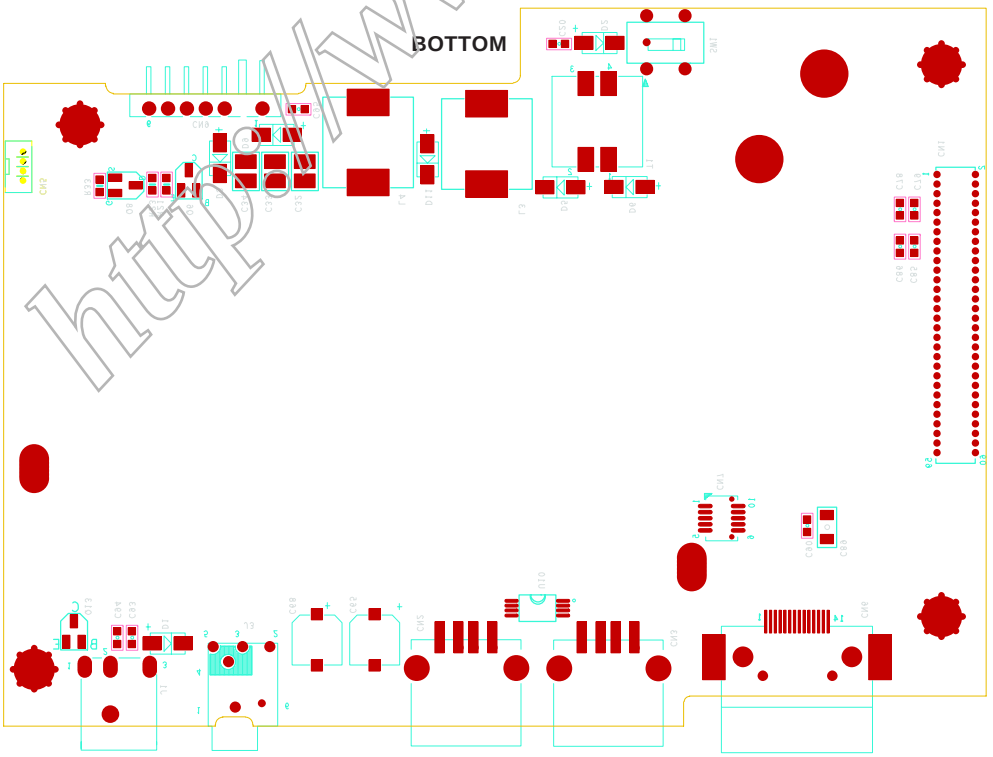


http://www.wjel.net

Power Board Gerber



Project Name :	PH3000	Version num. :	4.0
DOC :	DD board	Release Date :	01/02/2003
LAYER:	SILK SCREEN FOR COMP.		



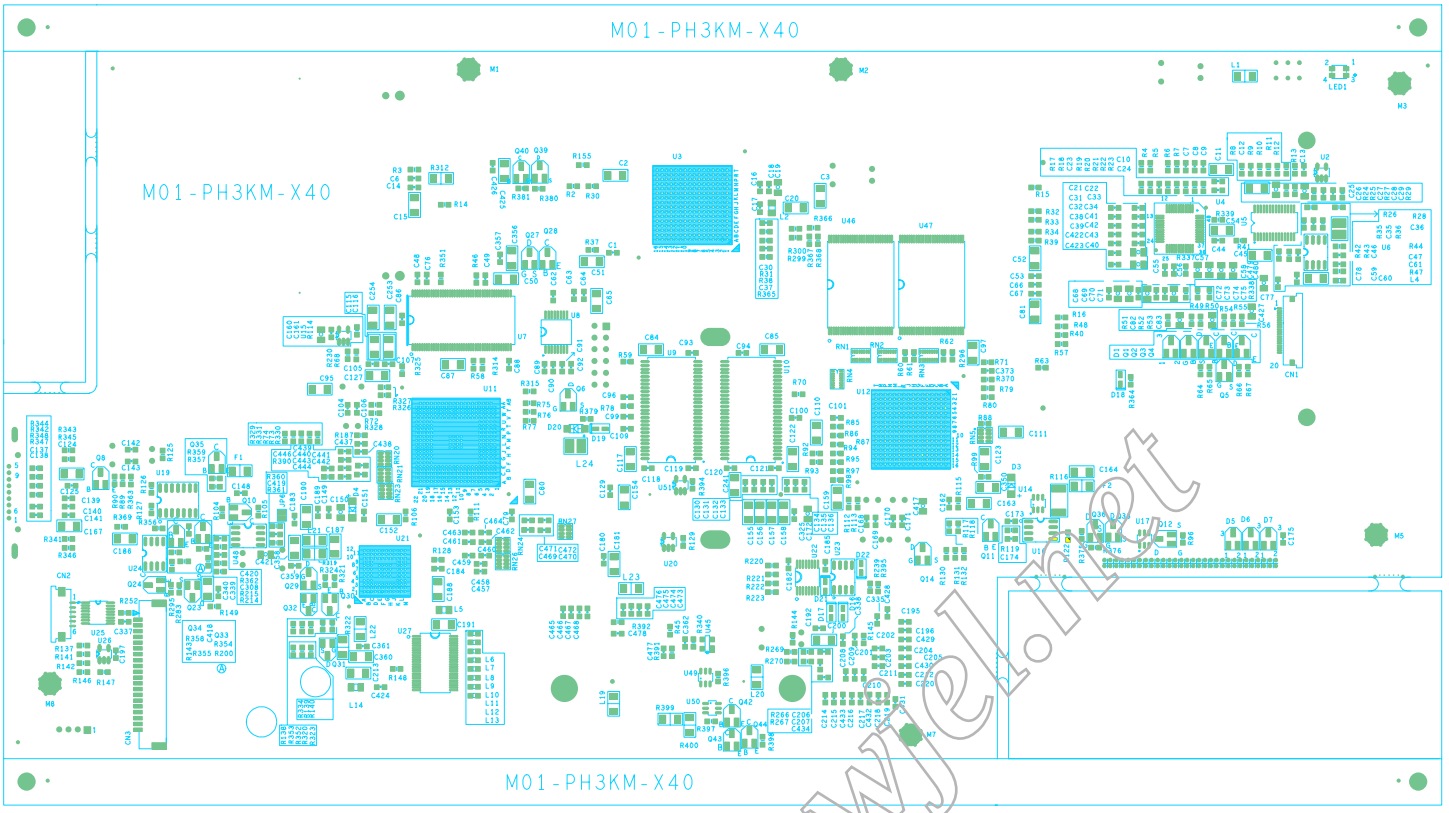
Project Name :	PH3000	Version num. :	4.0
DOC :	DD board	Release Date :	01/02/2003
LAYER:	SILK SCREEN FOR SOLD.		

http://www.vtel.net

Main Board Gerber

Go to cover page

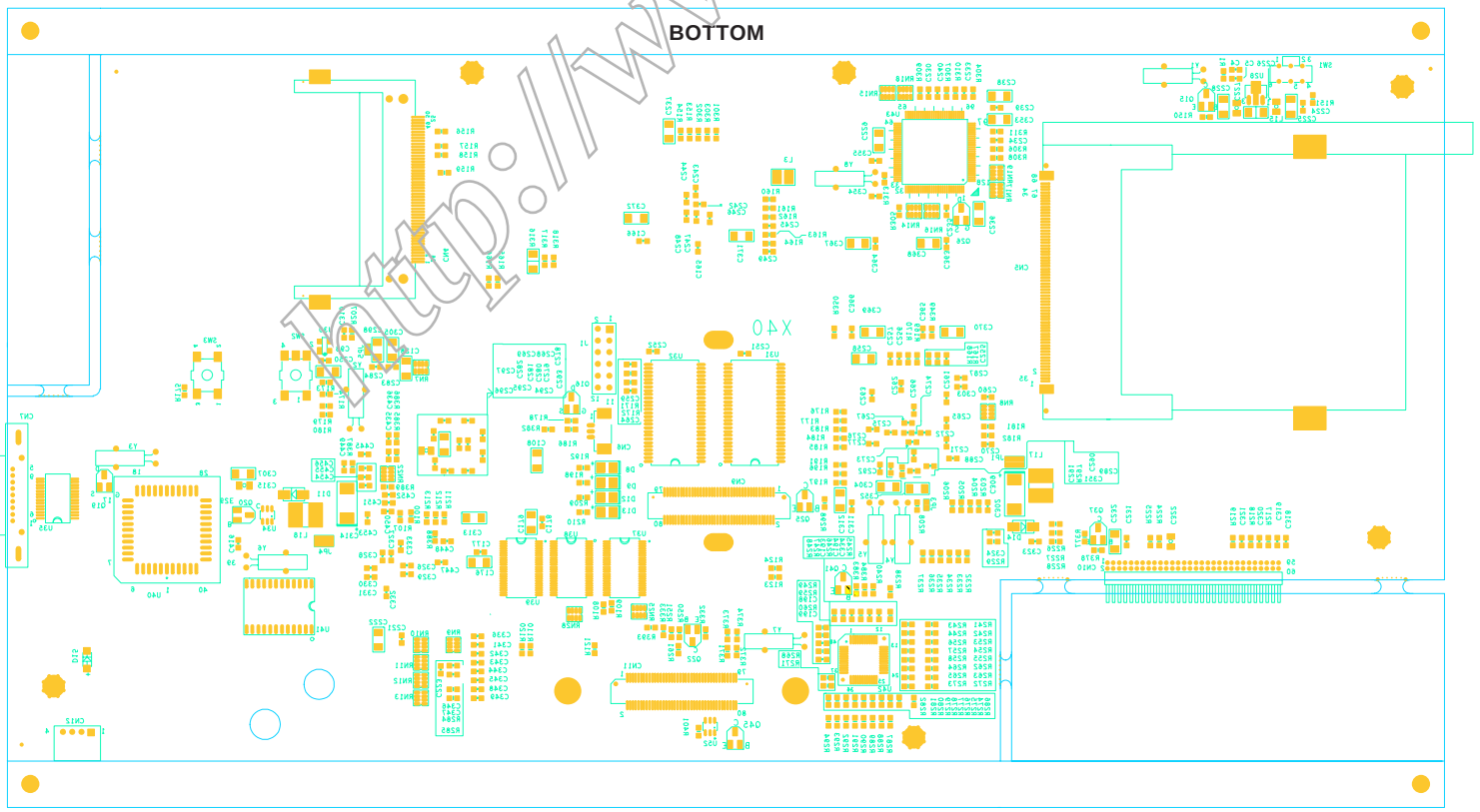
TOP



Project Name : PH3000		Version num. : 4.0
DOC : MAIN BOARD	Release Date : 12/30/2002	
LAYER: SILK SCREEN FOR COMP.		

http://www.wjel.net

BOTTOM

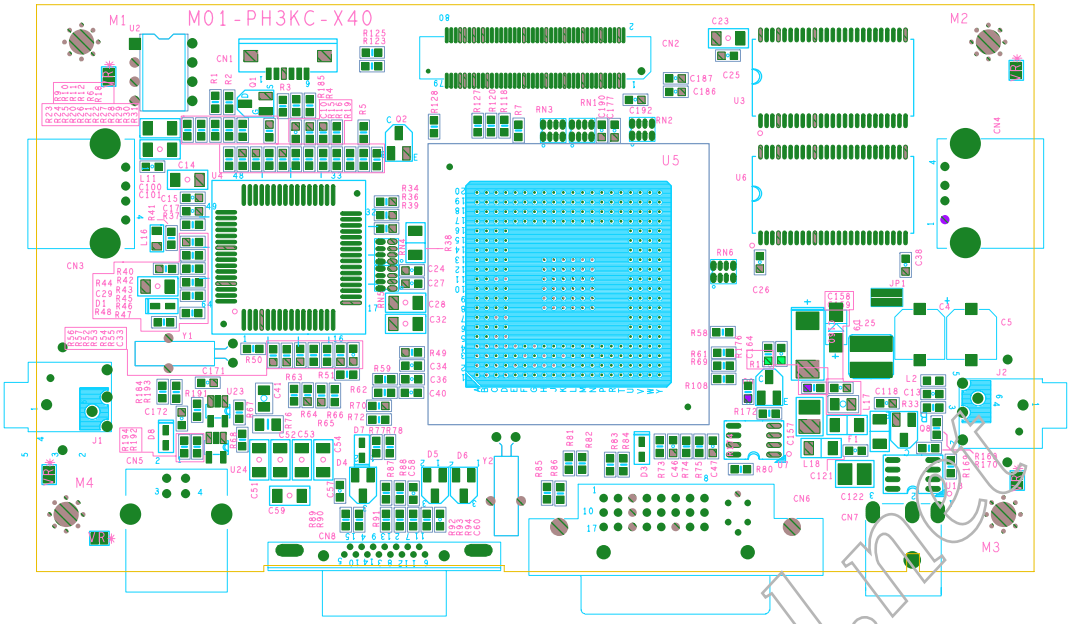


Project Name : PH3000		Version num. : 4.0
DOC : MAIN BOARD	Release Date : 12/30/2002	
LAYER: SILK SCREEN FOR SOLD.		

Cradle Board Gerber

Go to cover page

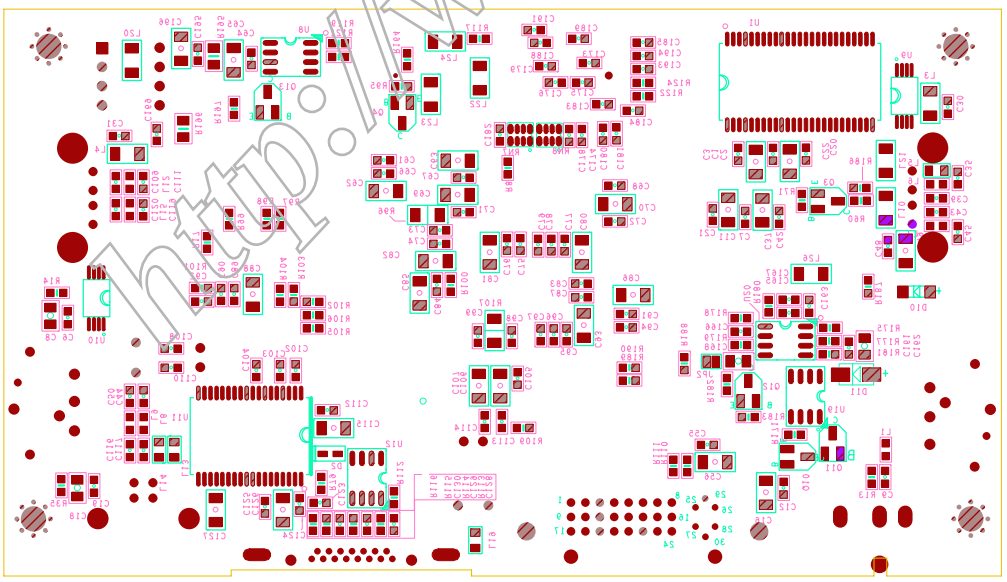
TOP



Project Name :	PH3000	Version num. : 4.0	
DOC :	CRADLE	Release Date :	01/02/2002
LAYER:	SILK SCREEN FOR COMP.		

http://www.wjl.net

BOTTOM

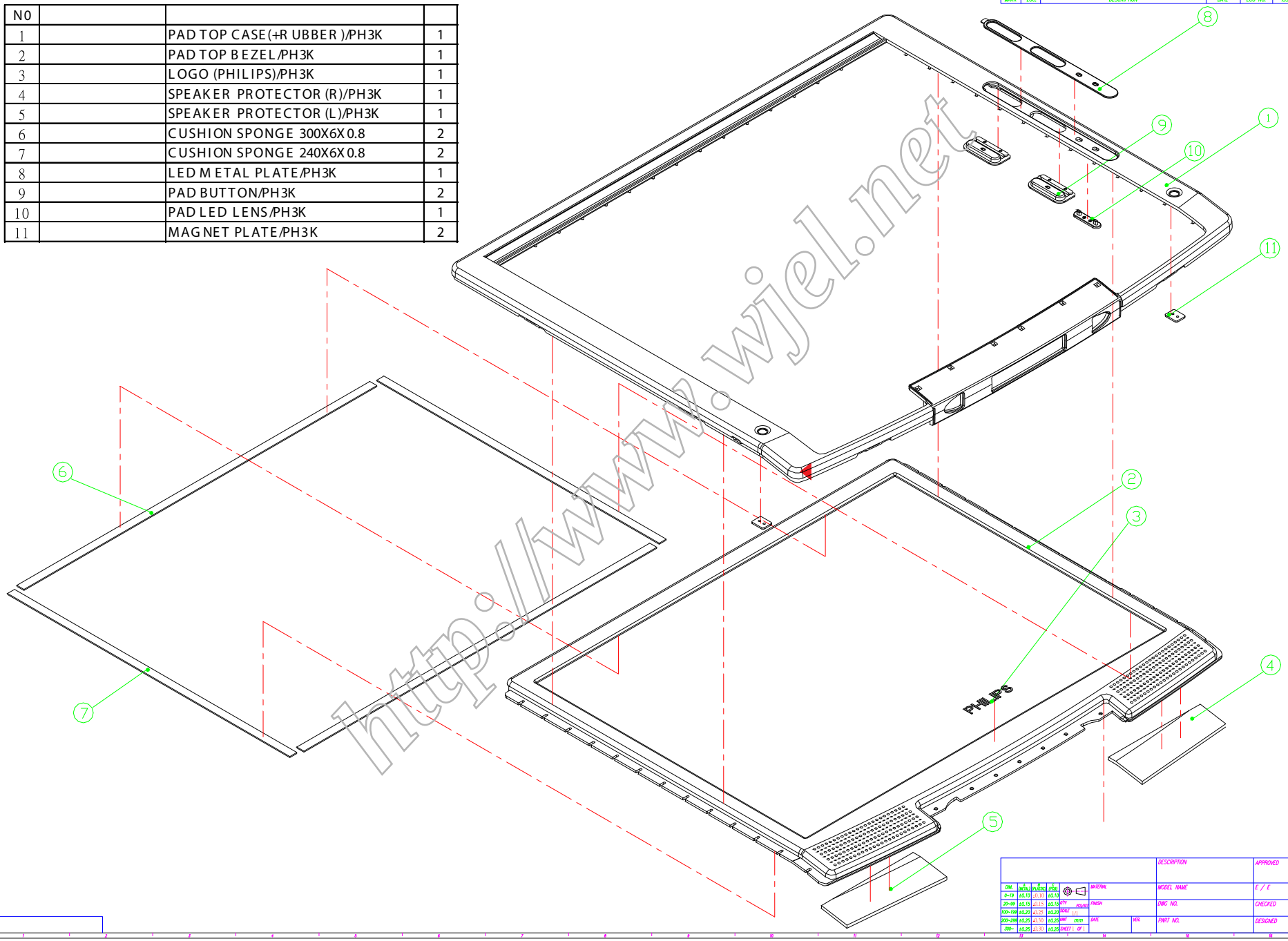


Project Name :	PH3000	Version num. : 4.0	
DOC :	CRADLE	Release Date :	01/02/2002
LAYER:	SILK SCREEN FOR SOLD.		

Exploded View

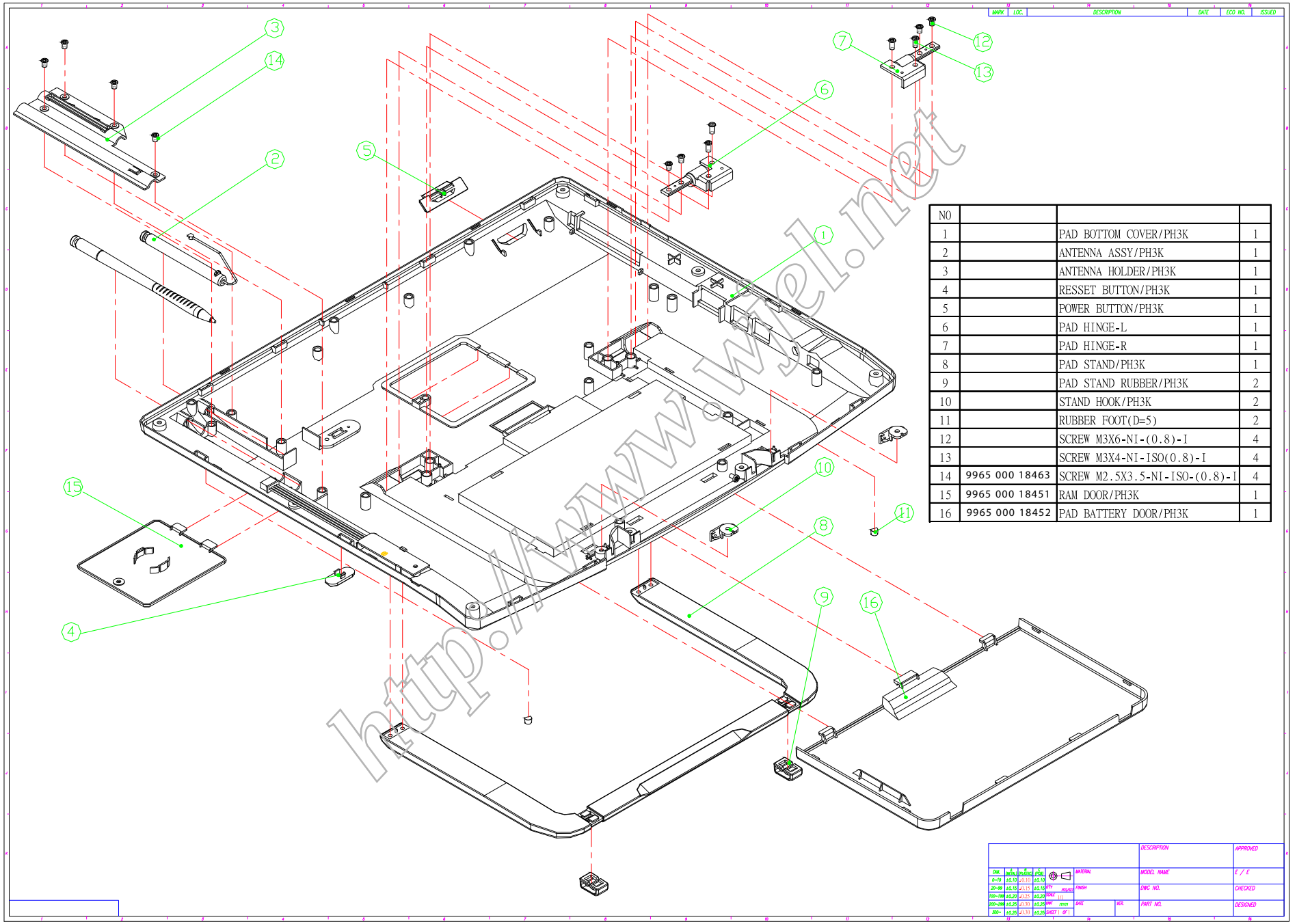
PAD-TOP

NO			
1		PAD TOP CASE(+R UBBER)/PH3K	1
2		PAD TOP BEZEL/PH3K	1
3		LOGO (PHILIPS)/PH3K	1
4		SPEAKER PROTECTOR (R)/PH3K	1
5		SPEAKER PROTECTOR (L)/PH3K	1
6		CUSHION SPONGE 300X6X0.8	2
7		CUSHION SPONGE 240X6X0.8	2
8		LED METAL PLATE/PH3K	1
9		PAD BUTTON/PH3K	2
10		PAD LED LENS/PH3K	1
11		MAGNET PLATE/PH3K	2



http://www.wjel.net

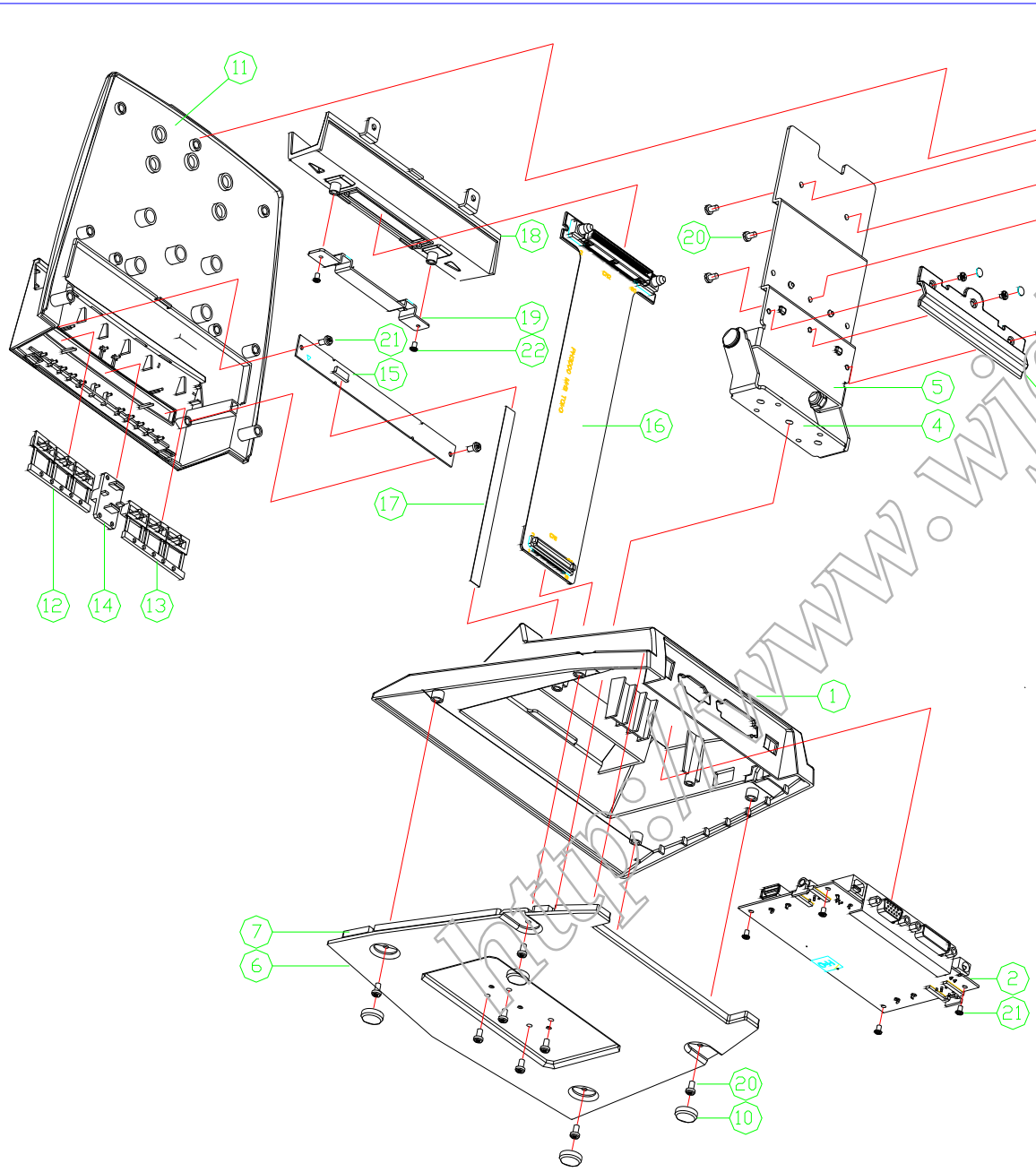
PAD-BOTTOM



NO			
1		PAD BOTTOM COVER/PH3K	1
2		ANTENNA ASSY/PH3K	1
3		ANTENNA HOLDER/PH3K	1
4		RESSET BUTTON/PH3K	1
5		POWER BUTTON/PH3K	1
6		PAD HINGE-L	1
7		PAD HINGE-R	1
8		PAD STAND/PH3K	1
9		PAD STAND RUBBER/PH3K	2
10		STAND HOOK/PH3K	2
11		RUBBER FOOT(D=5)	2
12		SCREW M3X6-NI-(0.8)-I	4
13		SCREW M3X4-NI-ISO(0.8)-I	4
14	9965 000 18463	SCREW M2.5X3.5-NI-ISO-(0.8)-I	4
15	9965 000 18451	RAM DOOR/PH3K	1
16	9965 000 18452	PAD BATTERY DOOR/PH3K	1

http://www.wel.net

CRADLE

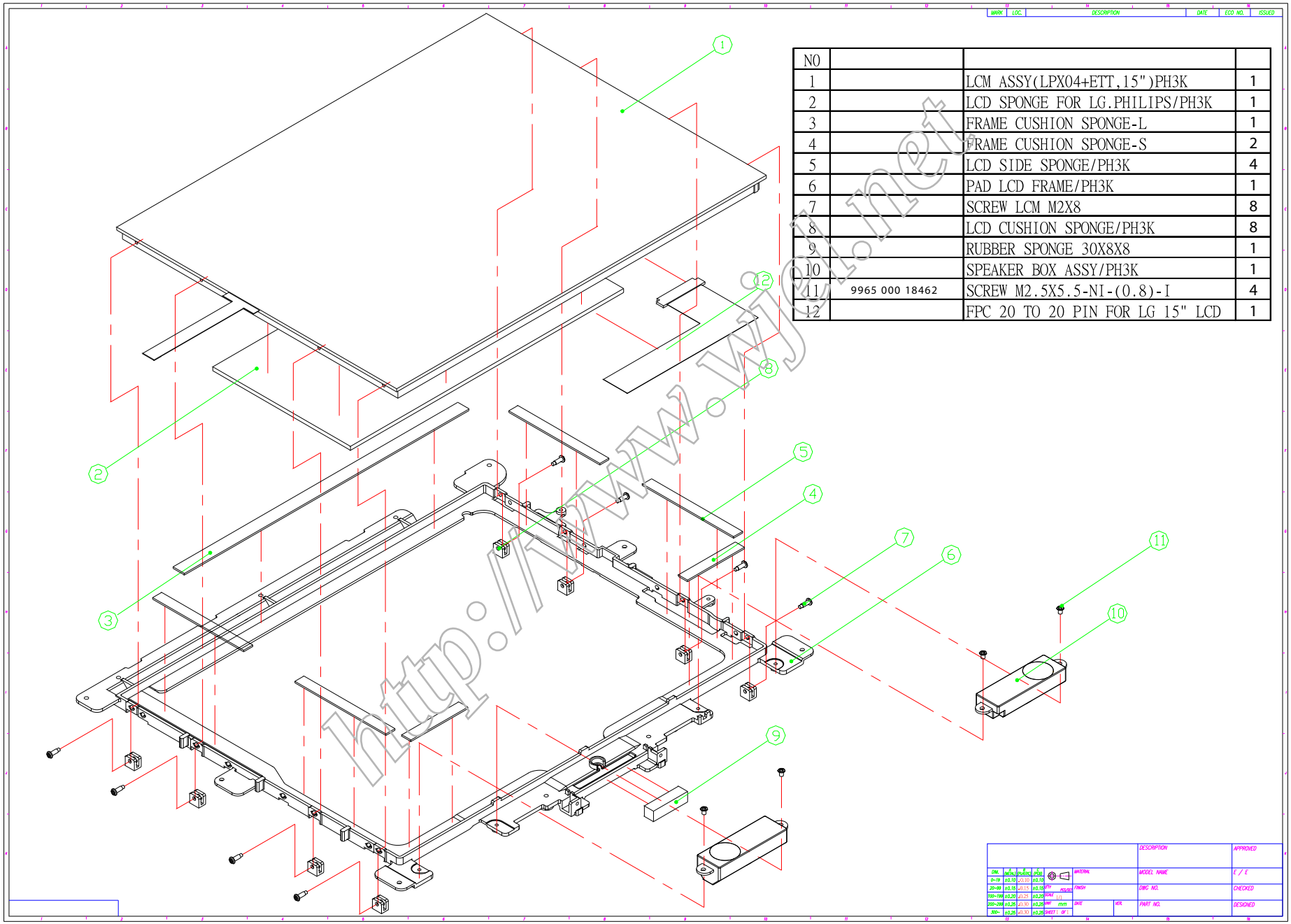


	9965 000 18468	CRADLE ASSY/PH3K	1
1		CRADLE BASE/PH3K	1
2		PCBA FOR PH3000 CRADLE BOARD	1
3		CRADLE BASE HOLDER/PH3K	1
4		CRADLE HINGE/PH3K	1
5		HINGE PLATE CRADLE/PH3K	1
6		HINGE BASE-1/PH3K	1
7		HINGE BASE-2/PH3K	1
8		RUBBER FOR BASE HOLDER	3
9		CRADLE BACK/PH3K	1
10		CRADLE-RUBFOOT-WB	4
11		CRADLE FRONT/PH3K	1
12		OSD BUTTON L/PH3K	1
13		OSD BUTTON R/PH3K	1
14		LED LENS CRADLE/PH3K	1
15		PCBA FOR PH3000 KEYBOARD	1
16		FPC 80TO80 PIN M/B TO I/O FOR PH3K	1
17		FFC C/B TO K/B 6PIN 1mmL=120mm	1
18		CRADLE I-O SEAT/PH3K	1
19		CRADLE I-O PCB HOLDER/PH3K	1
20		M3X5.5	22
21		M2.5X4	8
22		M2*2	2
23		STAND OFF SCREW M2.5X2-ISO-T	3

PART NAME: CRADLE EXPLODE
MATERIAL: FINISH: QTY 1 PCS/SET SCALE 1:0 UNIT : mm SHEET 1 of 1
MODEL NAME: PART NO. DWG NO. REV. DATE: 21.11.17
APPROVED: CHECKED: DESIGNED: JUNG.HONG

http://www.wjelnet

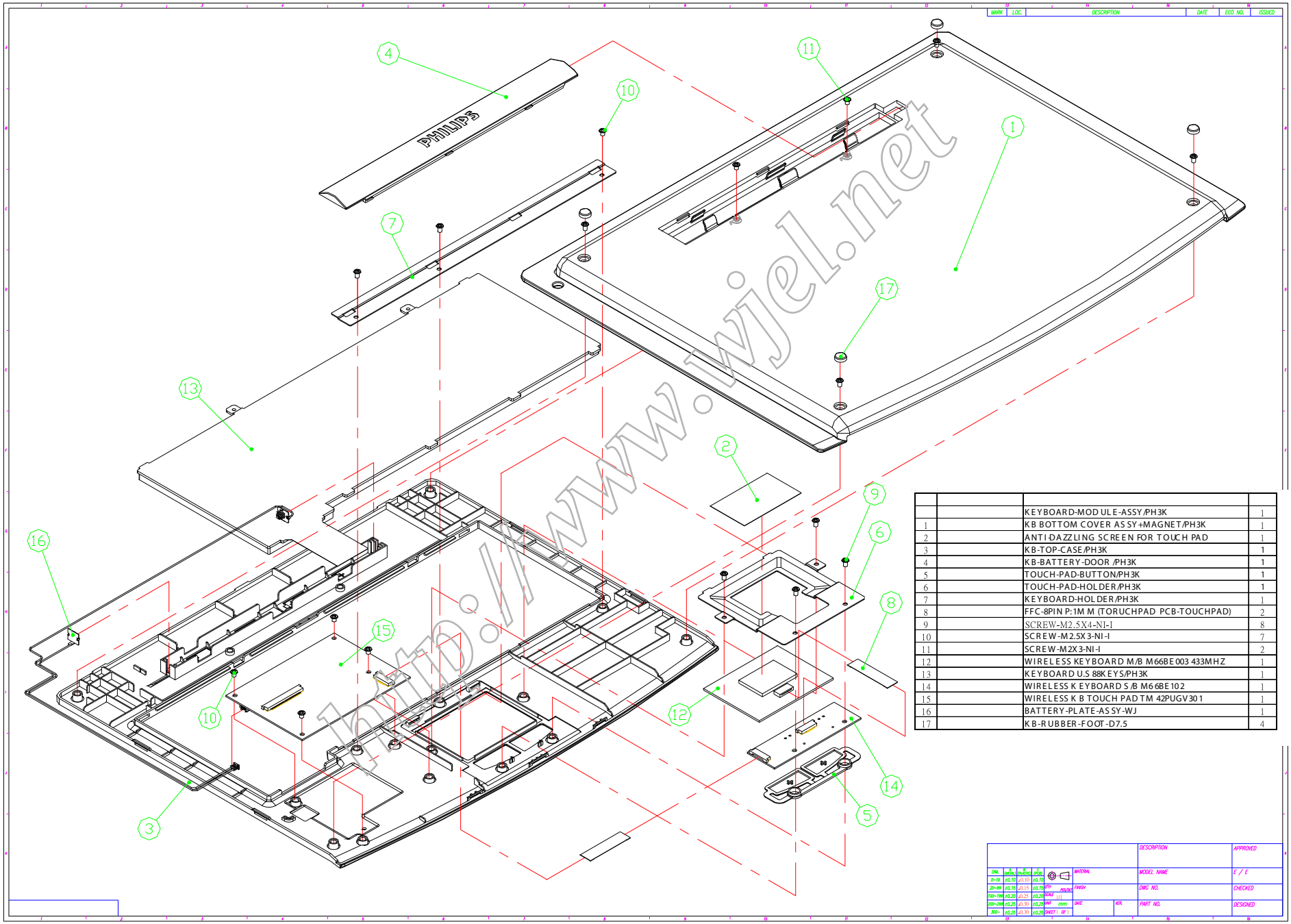
FRAME



NO			
1		LCM ASSY(LPX04+ETT,15")PH3K	1
2		LCD SPONGE FOR LG.PHILIPS/PH3K	1
3		FRAME CUSHION SPONGE-L	1
4		FRAME CUSHION SPONGE-S	2
5		LCD SIDE SPONGE/PH3K	4
6		PAD LCD FRAME/PH3K	1
7		SCREW LCM M2X8	8
8		LCD CUSHION SPONGE/PH3K	8
9		RUBBER SPONGE 30X8X8	1
10		SPEAKER BOX ASSY/PH3K	1
11	9965 000 18462	SCREW M2.5X5.5-NI-(0.8)-I	4
12		FPC 20 TO 20 PIN FOR LG 15" LCD	1

http://www.wjt.net

KEYBOARD



		KEYBOARD-MODULE-ASSY/PH3K	1
1		KB BOTTOM COVER ASSY+MAGNET/PH3K	1
2		ANTI-DAZZLING SCREEN FOR TOUCH PAD	1
3		KB-TOP-CASE/PH3K	1
4		KB-BATTERY-DOOR /PH3K	1
5		TOUCH-PAD-BUTTON/PH3K	1
6		TOUCH-PAD-HOLDER/PH3K	1
7		KEYBOARD-HOLDER/PH3K	1
8		FFC-8PIN P:1M M (TORUCHPAD PCB-TOUCHPAD)	2
9		SCREW-M2.5X4-NI-I	8
10		SCREW-M2.5X3-NI-I	7
11		SCREW-M2X3-NI-I	2
12		WIRELESS KEYBOARD M/B M66BE003 433MHZ	1
13		KEYBOARD U.S 88KEYS/PH3K	1
14		WIRELESS KEYBOARD S/B M66BE102	1
15		WIRELESS K B TOUCH PAD TM 42PUGV301	1
16		BATTERY-PLATE-ASSY-WJ	1
17		KB-RUBBER-FOOT-D7.5	4

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 17305	6 CELLS BATTERY ASSY/PH3K	1
9965 000 18461	XI-815 CF WLAN W/O CASE Z-COM	1
9965 000 17304	LONGCHENG Antenna WUB1K5 (PHILIPS)	1
9965 000 21290	INTEL GDPXA255A0C400 400HMZ CPU 256	1
9965 000 21291	W4200 BFA12 VGA LFBGA352 ATI	1
9965 000 21286	E28F128J3A-150 TSOP	2
9965 000 18449	TOP CASE ASSY/PH3K	1
9965 000 21243	GENESIS SCALER GM5020 PBGA292	1
9965 000 21289	INTEL GDS1111BA COMPANION CHIP 256	1
9965 000 18467	FPC CABLE 80P TO 100P PH3K FOR PAD	1
9965 000 18444	ADAPTOR 19V 3.16A HUA FOR PHILIPS	1
9965 000 18458	WIRELESS KB RECEIVER M67AR002 900MH	1
9965 000 18458	**WIRELESS KB RECEIVER M67AR002 433MH**	**1**
9965 000 21295	SDRAM W982516BH-75 4M*4BANKS*16BIT	2
9965 000 21436	INVERTER FOR PH3000 15"	1
9965 000 21293	BURR BROWN ADS7845 SSOP16	1
9965 000 21352	WINBOND W78E62BP 8BIT UCONTRO11ER P	1
9965 000 17311	14PIN MINI VGA MACE TO 15PIN VGA FEMALE	1
9965 000 21288	ATI MULTI-VIEW W1030AF A01 124TBGA	1
9965 000 18445	VGA CABLE 15P L:180CM BLUE	1
9965 000 21244	8BIT MCU MC68HC908LD60IFU QFP64	1
9965 000 18421	CARTON 56x37x28c/PH3K	1
9965 000 21300	LTC1622 SOP8 IC SWITCH REGULATOR	1
9965 000 21380	IC PWR SI786 SSOP-28	1
9965 000 21350	TUSB2077A 7PORT USB HUB CONTROL TI	1
9965 000 21301	REALTEK ALC202 AUDIO CODEC 48LQFP	1
9965 000 21405	MINI VGA CONNECTOR HDR-EA14LFYPG1	1
9965 000 21351	CYPRESS CY7C63613 USB CONTRO11ER SO	1
9965 000 21303	ANPEC APA4835 DUAL 2.8W AUDIO AMP TSSO	1
9965 000 18465	3V COIN W/CABLE L=35mm ML2032 MAXE1	1
9965 000 17307	STYLUS ASSY/PH3K	2
9965 000 18447	R.C USER'S MANUAL(MUTLI-LANGUAGE)	1
9965 000 18452	PAD BATTERY DOOR/PH3K	1
9965 000 21287	0.6MM H=4MM B/B FX8-80P-SV1 HRS	1
9965 000 21274	HANNSTAR 0.6MM 80PIN SMT 802RVS	1
9965 000 21366	HANNSTAR 0.6MM 80PIN SMT 802PVS	1
9965 000 21274	HANNSTAR 0.6MM 80PIN SMT 802RVS	1
9965 000 18451	RAM DOOR/PH3K	1
9965 000 21367	CF SOCKET 0060000F20A	1
9965 000 21408	CON QPOCZ-60-B-024-M 60PIN 1.27mmx1	1
9965 000 21376	DUAL ROW P=1.27 R/A QOT-60R1-K-A	1
9965 000 21349	125FI-20MT-N 20PINS	1
9965 000 21353	SN74LVC16244ADGGR TSSOP-48	3
9965 000 18441	POWER CORD FOR USA	1
9965 000 17312	AUDIO CABLE 3.5ψ EAR PHONE LINE(UL	1
9965 000 17309	USB BLACK 180cm A(YELLOW)-B(RED) (CRA-PC)	1

http://www.wjl.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 17308	USB TRANSPARENT 180cm A(YELLOW)-B(BLUE) (CRA-P(	1
9965 000 21198	ESMT M12L16161A-7T 1M*16 BIT SDRAM	1
9965 000 21198	ESMT M12L16161A-7T 1M*16 BIT SDRAM	2
9965 000 21201	LM3526MX-L DUAL PORT USB POWER SWI	1
9965 000 21201	LM3526MX-L DUAL PORT USB POWER SWI	1
9965 000 21280	DVI-R-24FBS-P-W	1
9965 000 21281	SLIM D-SUB FEMALE-15P DIP BLUE	1
9965 000 18429	EPS-CUSHION-TOP/PH3K	1
9965 000 21348	0.5MM FFC CON R/A TOP H=1.2 BL114-2	1
9965 000 21348	0.5MM FFC CON R/A TOP H=1.2 BL114-2	1
9965 000 18431	EPS-CUSHION-BOTTOM/PH3K	1
9965 000 18430	EPS-CUSHION-MIDDLE/PH3K	1
9965 000 21409	BTM-06AR1 BATT. CONNECTOR 6PIN 2.5M	1
9965 000 21397	MOSFET DUAL N-CH SI4920 SC8 VISHAY	2
9965 000 21200	PWM IC TL5001CD SOP8 TI	1
9965 000 21200	PWM IC TL5001CD SOP8 TI	1
9965 000 21292	PI5A100 QSOP-16	1
9965 000 18437	ACCESSORY BOX 32x25x10cm/PH3K	1
9965 000 21385	150uF/6.3V KOCAP V_SIZE	4
9965 000 18453	PAD FCC LABEL/PH3K	1
9965 000 21384	10uF 6.3V X5R 1206 CERAMIC CAP	1
9965 000 21258	220uF 6.3V +-5% KOCAP D-SIZE	1
9965 000 21258	220uF 6.3V +-5% KOCAP D-SIZE	2
9965 000 17316	R.C Quick Guide(English)/PH3K	1
9965 000 18438	ACCESSORY BOX EPE CUSHION/PH3K	1
9965 000 21404	10uH(1:2) BCRH125B +-20%	1
9965 000 21202	SN75240 DUAL USB PORT TRANSIENT SU	1
9965 000 21202	SN75240 DUAL USB PORT TRANSIENT SU	2
9965 000 21285	PCB HOLDER BRACKET/PH3K	1
9965 000 21302	MS SINGLE OP AMP LMV321 SOT23-5	1
9965 000 21304	MICREL MIC811RU SOT-143	1
9965 000 21304	MICREL MIC811RU SOT-143	1
9965 000 21379	IC PWR TL594 SOP-16	1
9965 000 21402	10uH BCRH125 +-20%	1
9965 000 21403	47uH BCRH125 +-20%	1
9965 000 21209	MOSFET-P CH SI4431 SOP-8	1
9965 000 21209	MOSFET-P CH SI4431 SOP-8	1
9965 000 21305	IC PWR-REULATOR LX8211 SOT23	1
9965 000 21209	MOSFET-P CH SI4431 SOP-8	2
9965 000 21406	F/H 0.8MM 2X5P SMT YX-2001	1
9965 000 21309	MOSFET-P CH SI3441 TSOP-6	1
9965 000 21283	DC JACK 2DC-0026B200	1
9965 000 21273	1MM FFC CON R/A TOP H=2 BL113-06RU	1
9965 000 21283	DC JACK 2DC-0026B200	1
9965 000 21273	1MM FFC CON R/A TOP H=2 BL113-06RU	1
9965 000 21277	3.5 PHONE JACK (DIP)	1

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21310	MOSFET-P CH SI3443 TSOP-6	3
9965 000 21321	22uF 10V Y5V -20+80% 1210	1
9965 000 21273	1MM FFC CON R/A TOP H=2 BL113-06RU	1
9965 000 21369	24.576MHZ +-30PPM CSA-309 CYLINDER CRYSTAL	1
9965 000 21371	3.6864MHZ CSA-310,CRYSTAL CYLINDER	1
9965 000 21368	16MHZ +-30PPM CSA-309 CYLINDER CRYSTAL	1
9965 000 21372	40MHZ +-30PPM CSA-309 CYLINDER CRYSTAL	1
9965 000 21415	VR100K +-5% DIP 0.05W RN101NB100KPT	2
9965 000 21310	MOSFET-P CH SI3443 TSOP-6	1
9965 000 21310	MOSFET-P CH SI3443 TSOP-6	1
9965 000 21310	MOSFET-P CH SI3443 TSOP-6	1
9965 000 21407	USB A-TYPE SMT KS-001H-A1B	2
9965 000 21277	3.5 PHONE JACK (DIP)	2
9965 000 21373	6MHZ +-30PPM CSA-309 CYLINDER CRYSTAL	2
9965 000 21276	24MHZ +-30PPM CSA-309 CYLINDER CRYSTAL	2
9965 000 21400	50M 1% 2010 1/2W	1
9965 000 21394	30M 1% 2010 1/2W	2
9965 000 18428	CARTON PARTITION 32X24cm/PH3K	1
9965 000 21410	DETECT SWITCH 5V 1MA HCH-227	1
9965 000 21252	INDUCTOR 10uH +-20% BC54	2
9965 000 21252	INDUCTOR 10uH +-20% BC54	1
9965 000 21339	30M +-1% CR2010 1/2W BOURN	1
9965 000 21257	CC 10uF 25V Y5U +-20% SMD-1210	2
9965 000 21374	SLIDE SWITCH SST-2200 HCH	1
9965 000 21257	CC 10uF 25V Y5U +-20% SMD-1210	1
9965 000 21311	SI2301DS-T1 SOT-23	5
9965 000 21311	SI2301DS-T1 SOT-23	2
9965 000 21205	SCHOTTKY DIODE 3A 40V CH SSM34 SMA	4
9965 000 21205	SCHOTTKY DIODE 3A 40V CH SSM34 SMA	2
9965 000 21205	SCHOTTKY DIODE 3A 40V CH SSM34 SMA	1
9965 000 21205	SCHOTTKY DIODE 3A 40V CH SSM34 SMA	1
9965 000 21250	FUSE 3216FF_3A_1206	2
9965 000 21250	FUSE 3216FF_3A_1206	1
9965 000 21312	FUSE 3216FF_1A_1206	1
9965 000 21250	FUSE 3216FF_3A_1206	1
9965 000 21378	IC REG B3431AK3 2.5V +-0.5% SOT23	1
9965 000 21294	93C46SI SERIAL EEPROM 2.7V 1M Hz	1
9965 000 21365	1.25mm 3PIN CON. STR 53398-0390 MOL	1
9965 000 18439	ACCESSORY BOX PARTITION 57X24cm/PH3	1
9965 000 21224	3.3uF 16V +80-20% Y5V 1206 CAP	1
9965 000 18466	FPC M/B TO S/B 20PIN 0.5MM L=50MM	1
9965 000 21284	EARPHONE JACK HOLDER/PH3K	2
9965 000 21354	SCHOTTKY RECTIFIER MBR0530	1
9965 000 21259	220uF/6.3V SMD 6.3*6 E.C.	2
9965 000 21259	220uF/6.3V SMD 6.3*6 E.C.	2
9965 000 21246	ELM7S14 SCHMITT SOT-25 5-PIN ELM	2

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21279	USB B TYPE CON. 90° Black gum (DIP	1
9965 000 21298	ELM7S32 CMOS LOGIC 2C,2-INPUT OR G	1
9965 000 21355	22uH 1210 +-5%	1
9965 000 18435	PROTECT BAG 52X45cm\CRA	1
9965 000 21282	8PIN DIP IC SOCKET 2.54MM	1
9965 000 21299	74HC74 14PIN SOP IC	1
9965 000 21256	10uF/25V Y5V 1210	8
9965 000 21256	10uF/25V Y5V 1210	1
9965 000 21377	IC LINEAR DUAL OP-AMP SOIC8 LM358M	1
9965 000 18427	BOX HAND-GRIP 180*37MM/PH3K	1
9965 000 21412	KTLH-YOG033B-TR LED CHIP SMD	1
9965 000 21412	KTLH-YOG033B-TR LED CHIP SMD	1
9965 000 21278	USB A TYPE CON. 90° Black gum(DIP	2
9965 000 18432	SCREEN PROTECTOR/PH3K	1
9965 000 21313	POLYSWITCH SMD1210P075TS FUSE 6V/7	1
9965 000 21297	7S08 SINGLE AND GATE	1
9965 000 21219	10UF 10V Y5V -20+80% 1206 CAP	3
9965 000 21363	TACT SWITCH TOUCHES SWITCH	1
9965 000 21363	TACT SWITCH TOUCHES SWITCH	6
9965 000 21363	TACT SWITCH TOUCHES SWITCH	2
9965 000 21411	CON 4PIN 1.25MM 53048-0410 MOLEX	1
9965 000 18434	PROTECT BAG 47X34cm\PAD	1
9965 000 21370	32.768KHZ +-20PPM CFS-308 CYLINDER CRYSTAL	1
9965 000 21364	TACT SWITCH DTSM-63	1
9965 000 21315	10uF 16V +80-20% Y5V 1206 MLCC	7
9965 000 21315	10uF 16V +80-20% Y5V 1206 MLCC	1
9965 000 21315	10uF 16V +80-20% Y5V 1206 MLCC	2
9965 000 21315	10uF 16V +80-20% Y5V 1206 MLCC	1
9965 000 21375	2.0MM WAFER DIP R/A 4501-04	1
9965 000 21401	SCHOTTKY DIODE 1A 40V CH SSM14 SMA	2
9965 000 21217	1uF 10% 16V X7R 0805 CAP	1
9965 000 21216	1uF 10% 10V X7R 0805 CAP	16
9965 000 21216	1uF 10% 10V X7R 0805 CAP	3
9965 000 21216	1uF 10% 10V X7R 0805 CAP	1
9965 000 21216	1uF 10% 10V X7R 0805 CAP	2
9965 000 21356	0.47uF 16V +-10% X7R 0805 CAP	1
9965 000 21334	22 OHM +-5% 0603 1/16W SMD 16P8R AR	4
9965 000 21251	BEAD 100MHZ 500Z 3000MA 1206	3
9965 000 21251	BEAD 100MHZ 500Z 3000MA 1206	1
9965 000 21251	BEAD 100MHZ 500Z 3000MA 1206	1
9965 000 21251	BEAD 100MHZ 500Z 3000MA 1206	2
9965 000 21219	10uF 10V Y5V -20+80% 1206 CAP	54
9965 000 21219	10uF 10V Y5V -20+80% 1206 CAP	24
9965 000 21219	10uF 10V Y5V -20+80% 1206 CAP	24
9965 000 21219	10uF 10V Y5V -20+80% 1206 CAP	11
9965 000 21219	10uF 10V Y5V -20+80% 1206 CAP	3

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21308	ZENER DIODE 2.7V LL-34	1
9965 000 21307	3.9V_LL34 ZENER	1
9965 000 21203	6.2V_LL34 ZENER	1
9965 000 21307	3.9V_LL34 ZENER	1
9965 000 21203	6.2V_LL34 ZENER	1
9965 000 21208	SST2907 PNP	1
9965 000 21208	SST2907 PNP	1
9965 000 21208	SST2907 PNP	1
9965 000 21249	RK7002 SOT23 X'SISTOR N-CHANNEL EN	5
9965 000 21249	RK7002 SOT23 X'SISTOR N-CHANNEL EN	1
9965 000 21249	RK7002 SOT23 X'SISTOR N-CHANNEL EN	7
9965 000 21249	RK7002 SOT23 X'SISTOR N-CHANNEL EN	1
9965 000 21248	SST2222 NPN	1
9965 000 21248	SST2222 NPN	2
9965 000 21248	SST2222 NPN	1
9965 000 21248	SST2222 NPN	1
9965 000 21381	DAP202K_SOT23 DIODE	1
9965 000 21325	4.7uF 10V Y5V -20+80% 0805 CAP	3
9965 000 18462	NYLOK SCREW M2.5X5.5-NI-(0.8)-I	4
9965 000 18462	NYLOK SCREW M2.5X5.5-NI-(0.8)-I	10
9965 000 18462	NYLOK SCREW M2.5X5.5-NI-(0.8)-I	15
9965 000 21306	DAN202K VR 80V SMD DIODE	1
9965 000 21306	DAN202K VR 80V SMD DIODE	1
9965 000 21383	1uH +-10% 0805 SMD INDUCTOR	3
9965 000 18464	SCREW M2.5X2.5-NI-(0.4)-I	4
9965 000 18464	SCREW M2.5X2.5-NI-(0.4)-I	2
9965 000 18464	SCREW M2.5X2.5-NI-(0.4)-I	2
9965 000 21247	BAV99LT1 DUAL SERIES SWITCHING DIO	3
9965 000 21220	15pF 50V 2% NPO 0603	2
9965 000 21247	BAV99LT1 DUAL SERIES SWITCHING DIO	3
9965 000 21220	15pF 50V 2% NPO 0603	2
9965 000 21204	1SS355 SCHOTTKY	3
9965 000 21204	1SS355 SCHOTTKY	5
9965 000 21204	1SS355 SCHOTTKY	5
9965 000 21204	1SS355 SCHOTTKY	2
9965 000 18433	VOID LABEL ψ15.5MM	2
9965 000 21218	1uF/25V Y5V 0805	5
9965 000 21218	1uF/25V Y5V 0805	1
9965 000 21218	1uF/25V Y5V 0805	1
9965 000 21210	BEADS 32 OHM/100MHZ +-25% 1206	3
9965 000 21210	BEADS 32 OHM/100MHZ +-25% 1206	3
9965 000 21210	BEADS 32 OHM/100MHZ +-25% 1206	1
9965 000 21207	MMBT3906 PNP SOT23 X`SISTOR MOTORO	2
9965 000 21206	MMBT3904 SOT23 X'SISTOR	1
9965 000 21207	MMBT3906 PNP SOT23 X`SISTOR MOTORO	1
9965 000 21206	MMBT3904 SOT23 X'SISTOR	1

http://www.wiel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21206	MMBT3904 SOT23 X'SISTOR	10
9965 000 21207	MMBT3906 PNP SOT23 X`SISTOR MOTORO	3
9965 000 21206	MMBT3904 SOT23 X'SISTOR	5
9965 000 21207	MMBT3906 PNP SOT23 X`SISTOR MOTORO	1
9965 000 21206	MMBT3904 SOT23 X'SISTOR	2
9965 000 21206	MMBT3904 SOT23 X'SISTOR	3
9965 000 21207	MMBT3906 PNP SOT23 X`SISTOR MOTORO	1
9965 000 21223	330pF NPO 5% 50V 0805 CAP	2
9965 000 21223	330pF NPO 5% 50V 0805 CAP	2
9965 000 21254	100nF 10% 25V X7R 0603 CAP	1
9965 000 21221	0.022U 25V +-10% X7R 0603 CAP	1
9965 000 21221	0.022U 25V +-10% X7R 0603 CAP	1
9965 000 21214	0.1UF 16V +-10% X7R 0603 CAP	7
9965 000 18463	SCREW-M2.5X3.5-NI-(0.8)-I	4
9965 000 18463	SCREW-M2.5X3.5-NI-(0.8)-I	4
9965 000 18463	SCREW-M2.5X3.5-NI-(0.8)-I	4
9965 000 18440	BAG 100*140MM (COREGA) 5 NUMBER	2
9965 000 21382	BEAD SBK160808T_221Y_S-0603 220Z	2
9965 000 21212	BEAD SBK20120T_601Y_S-0805 600Z	4
9965 000 21212	BEAD SBK20120T_601Y_S-0805 600Z	2
9965 000 21212	BEAD SBK20120T_601Y_S-0805 600Z	4
9965 000 21212	BEAD SBK20120T_601Y_S-0805 600Z	1
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	104
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	12
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	5
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	81
9965 000 21323	4.7pF 50V +-5% NPO 0603 CAP	2
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	49
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	18
9965 000 21214	0.1uF 16V +-10% X7R 0603 CAP	5
9965 000 21211	BEAD SBK160808T_121Y_S-0603 120Z	4
9965 000 21211	BEAD SBK160808T_121Y_S-0603 120Z	1
9965 000 21211	BEAD SBK160808T_121Y_S-0603 120Z	6
9965 000 21320	220pF 50V +-5% NPO 0603 CAP	3
9965 000 21320	220pF 50V +-5% NPO 0603 CAP	1
9965 000 21327	680pF 50V 10% X7R 0603 CAP	1
9965 000 21226	5.6pF 50V +-20% 0603 CAP	2
9965 000 21261	10K 1/16W 0603 5% 8P4R ARRAY	2
9965 000 21267	22 OHM +-5% 1/16W 0603 SMD 8P4R AR	1
9965 000 21314	0.001uF 50V +-10% X7R 0603 CAP	1
9965 000 21253	0.01uF 50V +-10% X7R 0603 CAP	2
9965 000 21215	0.1uF 25V -20%+80% Y5V 0603 CAP	7
9965 000 21225	47pF 50V +-5% COG 0603 CAP	6
9965 000 21253	0.01uF 50V +-10% X7R 0603 CAP	1
9965 000 21215	0.1uF 25V -20%+80% Y5V 0603 CAP	2
9965 000 21215	0.1uF 25V -20%+80% Y5V 0603 CAP	1

http://www.radiomanuel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21213	10pF 50V +-5% COG 0603 CAP	32
9965 000 21314	0.001uF 50V +-10% X7R 0603 CAP	4
9965 000 21253	0.01uF 50V +-10% X7R 0603 CAP	3
9965 000 21230	10 OHM 0603 1/8W 8P4R ARRAY	6
9965 000 21316	12pF 50V +-5% COG 0603 CAP	2
9965 000 21317	18pF 50V +-5% COG 0603 CAP	2
9965 000 21318	20pF 50V +-5% NPO 0603 CAP	16
9965 000 21319	22pF 50V +-5% NPO 0603 CAP MCH185A	1
9965 000 21322	27pF 50V +-5% NPO 0603 CAP	1
9965 000 21324	470pF 50V X7R +-10% 0603 CAP	1
9965 000 21326	68pF 50V +-5% NPO 0603 CAP	2
9965 000 21319	22pF 50V +-5% NPO 0603 CAP MCH185A	2
9965 000 21331	100K +-5% 1/10W 8P4R H:0.55 SMD060	1
9965 000 21213	10pF 50V +-5% COG 0603 CAP	23
9965 000 21314	0.001uF 50V +-10% X7R 0603 CAP	2
9965 000 21357	56pF 50V +-5% NPO 0603 CAP	3
9965 000 21230	10 OHM 0603 1/8W 8P4R ARRAY	8
9965 000 21331	100K +-5% 1/10W 8P4R H:0.55 SMD060	8
9965 000 21318	20pF 50V +-5% NPO 0603 CAP	4
9965 000 21322	27pF 50V +-5% NPO 0603 CAP	2
9965 000 21222	33pF NPO 50V +-5% 0603 CAP	2
9965 000 21225	47pF 50V +-5% COG 0603 CAP	15
9965 000 21230	10 OHM 0603 1/8W 8P4R ARRAY	2
9965 000 21225	47pF 50V +-5% COG 0603 CAP	1
9965 000 21230	10 OHM 0603 1/8W 8P4R ARRAY	3
9965 000 21253	0.01uF 50V +-10% X7R 0603 CAP	1
9965 000 21215	0.1uF 25V -20%+80% Y5V 0603 CAP	1
9965 000 21215	0.1uF 25V -20%+80% Y5V 0603 CAP	1
9965 000 21255	0.1uF 16V -20+80% Y5V 1206 CAP	1
9965 000 21213	10pF 50V +-5% COG 0603 CAP	5
9965 000 21213	10pF 50V +-5% COG 0603 CAP	16
9965 000 21360	301K 1/16W +-1% 0603 RES	1
9965 000 21387	100 OHM 1/8W 1% 0805 RES	1
9965 000 21340	365 OHM 1% 0603 1/16W	1
9965 000 21228	0 OHM 1/4W 5% 1206 RES	6
9965 000 21228	0 OHM 1/4W 5% 1206 RES	6
9965 000 21228	0 OHM 1/4W 5% 1206 RES	1
9965 000 21390	115K 1/10W 1% 0603 RES	1
9965 000 21395	464K 1% 0603 1/16W RES	1
9965 000 21398	7.5K 1% 1/10W 0603 RES	1
9965 000 21399	82.5K 1% 1/16W 0603 RES	1
9965 000 21386	274K 1% 1/16W 0603 RES	1
9965 000 21358	196K 1/16W 1% 0603 RES	1
9965 000 21242	75K 1/16W +-5% 0603 RES	1
9965 000 21347	56K 1/16W 5% 0603 RES	3
9965 000 21329	1 OHM 1/16W 5% 0603 RES	1

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21338	30 OHM 1/16W 5% 0603 RES	1
9965 000 21262	15K 1/16W 5% 0603 RES	19
9965 000 21362	56 OHM 1/16W 5% 0603 RES	1
9965 000 21262	15K 1/16W 5% 0603 RES	11
9965 000 21262	15K 1/16W 5% 0603 RES	6
9965 000 21268	2.2M 1/16W 5% 0603 RES	1
9965 000 21242	75K 1/16W +-5% 0603 RES	1
9965 000 21241	40.2K 1/16W 1% 0603 RES	1
9965 000 21262	15K 1/16W 5% 0603 RES	1
9965 000 21389	1.1K 1% 1/16W 0603	1
9965 000 21336	27.4 OHM 1% 1/16W 0603	2
9965 000 21361	53.6K 1% 1/16W 0603 RES	1
9965 000 21328	0 OHM 1/16W 5% 0805 RES	2
9965 000 21232	1K 1/16W 1% 0603 RES	2
9965 000 21233	10K 1/16W 1% 0603 RES	4
9965 000 21330	100K 1% 0603 1/16W	2
9965 000 21388	1M 1% 1/10W 0603 RES	2
9965 000 21391	12K 0603 1% 1/16W	1
9965 000 21396	604 OHM 1/16W 1% 0603 RES	1
9965 000 21233	10K 1/16W 1% 0603 RES	1
9965 000 21266	22 OHM 1% 0603 1/16W	10
9965 000 21330	100K 1% 0603 1/16W	1
9965 000 21335	25.5K 1% 1/16W 0603	1
9965 000 21342	470 OHM 1% 0603 1/16W	2
9965 000 21233	10K 1/16W 1% 0603 RES	2
9965 000 21266	22 OHM 1% 0603 1/16W	4
9965 000 21337	27 OHM 1/16W 1% 0603 RES	14
9965 000 21272	75 OHM 1/16W 1% 0603 RES	3
9965 000 21337	27 OHM 1/16W 1% 0603 RES	2
9965 000 21346	475K 1/16W 1% 0603 RES	2
9965 000 21232	1K 1/16W 1% 0603 RES	2
9965 000 21266	22 OHM 1% 0603 1/16W	9
9965 000 21272	75 OHM 1/16W 1% 0603 RES	3
9965 000 21233	10K 1/16W 1% 0603 RES	1
9965 000 21413	13K 1% 0603 1/16W RES	1
9965 000 21264	2.2 OHM 1/16W 5% 0805 RES	1
9965 000 21263	180K 1/16W +-5% 0603 RES	2
9965 000 21236	2K 1/10W 5% 0603	1
9965 000 21345	470K 5% 0603 1/16W RES	1
9965 000 21265	2M 1/16W 5% 0603 RES	2
9965 000 21345	470K 5% 0603 1/16W RES	2
9965 000 21265	2M 1/16W 5% 0603 RES	1
9965 000 21227	0 OHM 1/16W 5% 0603 RES	2
9965 000 21234	10K 1/16W 5% 0603 RES	1
9965 000 21260	1K 1/16W 5% 0603 RES	5
9965 000 21234	10K 1/16W 5% 0603 RES	7

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21235	100K 1/16W 5% 0603 RES	10
9965 000 21392	2.7K 1/16W 5% 0603 RES	1
9965 000 21393	30K 1/16W 5% 0603	3
9965 000 21343	4.7K 1/16W 5% 0603 RES	2
9965 000 21238	2.2K 1/16W 5% 0603 RES	2
9965 000 21234	10K 1/16W 5% 0603 RES	2
9965 000 21260	1K 1/16W 5% 0603 RES	1
9965 000 21271	51K 1/16W 5% 0603 RES	1
9965 000 21239	300 OHM 1/16W 5% 0603 RES	2
9965 000 21332	1M 1/16W 5% 0603 RES	3
9965 000 21240	3.3K 1/16W +-5% 0603 RES	1
9965 000 21227	0 OHM 1/16W 5% 0603 RES	32
9965 000 21231	100 OHM 1/16W 5% 0603 RES	2
9965 000 21260	1K 1/16W 5% 0603 RES	7
9965 000 21234	10K 1/16W 5% 0603 RES	16
9965 000 21235	100K 1/16W 5% 0603 RES	50
9965 000 21333	1.5K 1/16W 5% 0603	1
9965 000 21237	20K 1/16W 5% 0603 RES	8
9965 000 21341	47 OHM 1/16W 5% 0603 RES	3
9965 000 21343	4.7K 1/16W 5% 0603 RES	4
9965 000 21344	47K 1/16W 5% 0603 RES	12
9965 000 21260	1K 1/16W 5% 0603 RES	1
9965 000 21227	0 OHM 1/16W 5% 0603 RES	8
9965 000 21229	10 OHM 5% 0603 1/16W	7
9965 000 21231	100 OHM 1/16W 5% 0603 RES	1
9965 000 21234	10K 1/16W 5% 0603 RES	15
9965 000 21235	100K 1/16W 5% 0603 RES	32
9965 000 21332	1M 1/16W 5% 0603 RES	4
9965 000 21333	1.5K 1/16W 5% 0603	3
9965 000 21359	200K 1/16W 5% 0603 RES	2
9965 000 21343	4.7K 1/16W 5% 0603 RES	5
9965 000 21344	47K 1/16W 5% 0603 RES	12
9965 000 21271	51K 1/16W 5% 0603 RES	7
9965 000 21229	10 OHM 5% 0603 1/16W	3
9965 000 21238	2.2K 1/16W 5% 0603 RES	1
9965 000 21269	33 OHM 1/16W 5% 0603 RES	2
9965 000 21271	51K 1/16W 5% 0603 RES	1
9965 000 21227	0 OHM 1/16W 5% 0603 RES	19
9965 000 21231	100 OHM 1/16W 5% 0603 RES	2
9965 000 21234	10K 1/16W 5% 0603 RES	9
9965 000 21238	2.2K 1/16W 5% 0603 RES	3
9965 000 21239	300 OHM 1/16W 5% 0603 RES	1
9965 000 21227	0 OHM 1/16W 5% 0603 RES	25
9965 000 21229	10 OHM 5% 0603 1/16W	1
9965 000 21231	100 OHM 1/16W 5% 0603 RES	7
9965 000 21260	1K 1/16W 5% 0603 RES	3

http://www.wjel.net

Spare Parts List

Philips P/N	Description	Qty
9965 000 21234	10K 1/16W 5% 0603 RES	23
9965 000 21235	100K 1/16W 5% 0603 RES	5
9965 000 21270	330 OHM 1/16W 5% 0603 RES	2
9965 000 21239	300 OHM 1/16W 5% 0603 RES	1
9965 000 21235	100K 1/16W 5% 0603 RES	3
9965 000 21240	3.3K 1/16W +-5% 0603 RES	1
9965 000 21237	20K 1/16W 5% 0603 RES	1
9965 000 21229	10 OHM 5% 0603 1/16W	1
9965 000 21234	10K 1/16W 5% 0603 RES	1
9965 000 21333	1.5K 1/16W 5% 0603	1
9965 000 21240	3.3K 1/16W +-5% 0603 RES	1
9965 000 21237	20K 1/16W 5% 0603 RES	1
9965 000 21414	150 OHM 5% 0603 1/16W	1
9965 000 21270	330 OHM 1/16W 5% 0603 RES	2
9965 000 18448	FRAME+LCM ASSY(LG)/PH3K	1
9966 000 18450	BOTTOM COVER ASSY/PH3K	1
9965 000 18457	PCBA FOR PH3000 F/B	1
9965 000 18456	PCBA FOR PH3K POWER BOARD	1
9965 000 18454	PCBA FOR PH3000 MAIN BOARD	1
9965 000 18468	CRADLE ASSY/PH3K	1
9965 000 18455	PCBA FOR PH3K SWITCH BOARD	1

http://www.wjel.net

Recommended Parts List

Go to cover page

150DM Spare Parts list with Quotation			
N0	PH 12NC	Description	Qty
PACKING			
1	9965 000 18421	CARTON 56x37x28cm/PH3K	1
2	9965 000 18426	XP PRO STICKER/PH3K	1
3	9965 000 18427	BOX HAND-GRIP 180*37MM/PH3K	1
4	9965 000 18428	CARTON PARTITION 32X28cm/PH3K	1
5	9965 000 18429	EPS-CUSHION-TOP/PH3K	1
6	9965 000 18430	EPS CUSHION MIDDLE/PH3K	1
7	9965 000 18431	EPS-CUSHION-BOTTOM/PH3K	1
8	9965 000 18432	SCREEN PROTECTOR/PH3K	1
9	9965 000 18433	VOID LABEL	2
10	9965 000 18434	PROTECT BAG 47X34CM\PAD	1
11	9965 000 18435	PROTECT BAG 52X45CM\CRA	1
12	#N/A	EXSICATOR	2
13	9965 000 18437	ACCESSORY BOX 35x24x7cm/PH3K	1
14	9965 000 18438	ACCESSORY BOX EPE CUSHION/PH3K	1
15	9965 000 18439	ACCESSORY BOX PARTITION 57X24cm/PH3K	1
16	9965 000 18440	NO.5 BAG	2
ACCESSORY			
1	9965 000 18441	Power cord FOR USA	1
2	9965 000 18442	Power cord FOR UK	1
3	9965 000 18443	Power cord FOR EUROPE	1
4	9965 000 18444	Adaptor 19V 3.16A 60W	1
5	9965 000 17304	WIRELESS DONGLE WUB1K5 (PHILIPS)	1
6	9965 000 17305	BATTERY MODULE 6 CELLS ASSY /PH3K	1
7	9965 000 17307	STYLUS ASSY/PH3K	2
8	9965 000 17308	USB CRYSTAL 180cm A(YELLOW)-B(BLUE)	1
9	9965 000 17309	USB BLACK 180cm A(YELLOW)-B(RED)	1
10	9965 000 18445	VGA Cable 1.8m Blue	1
11	9965 000 17311	MINI VGA 150MM BLACK CABLE	1
12	9965 000 17312	Audio single to single stereo cable	1
13	9965 000 18447	USER'S MANUAL(Multi-Language)/PH3K	1
14	9965 000 17316	Quick Guide	1
150DM			
	9965 000 18448	FRAME+LCM ASSY(LG)/PH3K	1
	9965 000 18449	TOP CASE ASSY/PH3K	1
	#N/A	BOTTOM ASSY/PH3K	1
	9965 000 18451	RAM DOOR/PH3K	1
	9965 000 18452	PAD BATTERY DOOR/PH3K	1
	9965 000 18453	PAD FCC LABEL/PH3K	1
	9965 000 18454	PCBA FOR PH3000 MAIN BOARD	1
	9965 000 18455	PCBA FOR PH3000 SWITCH BOARD	1
	9965 000 18456	PCBA FOR PH3000 POWER BOARD	1
	9965 000 18457	PCBA FOR PH3000 FLASH/B	1
	9965 000 18458	WIRELESS KB RECEIVER M67AR002 900MHZ/US	1
	9965 000 18459	XI-815 CF WLAN w/o case Z-COM/EU	1
	9965 000 18460	XI-815 CF WLAN w/o case Z-COM/FR	1
	9965 000 18461	XI-815 CF WLAN w/o case Z-COM/US	1
	9965 000 18462	SCREW M2.5X5.5-NI-(0.8)-I	25

http://www.wiznet

Recommended Parts List

	9965 000 18463	SCREW M2.5X3.5-NI-(0.8)-I	8
	9965 000 18464	SCREW M2.5X2.5-NI-(0.4)-I	2
	9965 000 18465	3V COIN W/CABLE L=35MM ML2032 MAXELL	1
	9965 000 18466	FFC M/B TO S/B 20PIN 0.5MM L=50mm	1
	9965 000 18467	FPC CABLE 80P TO 100P PH3000 FOR PAD	1
CRADLE			
	9965 000 18468	CRADLE ASSY/PH3K	1
KEYBOARD			
	9965 000 18420	150DM RF KEYBOARD EU	1
	9965 000 17319	150DM RF KEYBOARD DE	1
	9965 000 17317	150DM RF KEYBOARD UK	1
	9965 000 17320	150DM RF KEYBOARD FR	1
	9965 000 17318	150DM RF KEYBOARD US	1

http://www.wjel.net

Different Parts List

Aug. 4 '03

Diversity of 150DM10P/02 comparing with 150DM10P/00		
Item	12NC	Description
6-02	9965 000 17319	150DM RF KEYBOARD DE
Diversity of 150DM10P/05 comparing with 150DM10P/00		
3-02	9965 000 18442	Power cord FOR UK
6-03	9965 000 17317	150DM RF KEYBOARD UK
Diversity of 150DM10P/22 comparing with 150DM10P/00		
4-13	9965 000 18460	XI-815 CF WLAN w/o case Z-COM/FR
6-04	9965 000 17320	150DM RF KEYBOARD FR
Diversity of 150DM10P/74 comparing with 150DM10P/00		
3-01	9965 000 18441	Power cord FOR USA
4-11	9965 000 18458	WIRELESS KB RECEIVER M67AR002 900MHZ/US
4-14	9965 000 18461	XI-815 CF WLAN w/o case Z-COM/US
6-05	9965 000 17318	150DM RF KEYBOARD US
Diversity of 150DM10PK/05 comparing with 150DM10P/00		
3-02	9965 000 18442	Power cord FOR UK
6-03	9965 000 17317	150DM RF KEYBOARD UK

http://www.wjel.net

Topic	150DM test guide

1. Purpose: Specification and function testing.

2. Product: 150DM

3. Responsibility: QA testing staff.

4. Equipment demands & Testing environment:

4.1 Equipment Demands:

- 4.1.1 Monitor----------2 set
- 4.1.2 PS2 Mouse & Keyboard----------1 set
- 4.1.3 USB Mouse & Keyboard ----------1 set
- 4.1.4 PH3000 Wireless Keyboard----------1 set
- 4.1.5 Cradle----------1 set
- 4.1.6 Host PC (with DVI/D-SUB VGA card, with Audio card)----1 set
- 4.1.7 Power Adapter----------1 set
- 4.1.8 Head Phone & Microphone----------1 set
- 4.1.9 Wireless LAN-WUB1500 (with USB cable)----------1 set
- 4.1.10 VGA Cable----------1 set
- 4.1.11 DVI Cable----------1 set
- 4.1.12 USB Wireless LAN(WUB1500)----------1 set
- 4.1.13 Audio line in/out cable----------1 set
- 4.1.14 USB type A to type B cable----------1 set
- 4.1.14 MIRA Host
- 4.1.15 Windows XP Professional
- 4.1.16 Service Pack

4.2 Picture of testing environment:

http://www.wjl.net

Topic	150DM test guide

5. Testing steps:

5.1 Hardware Testing

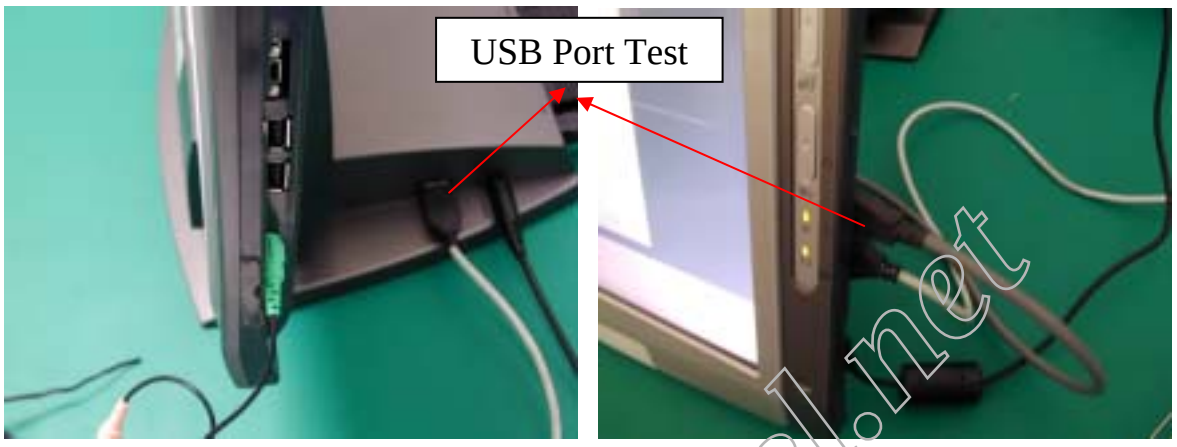
5.1.1 Connect Adapter; DVI cable; D-SUB cable; USB mouse; USB K/B; USB type A to B cable and Audio in/out cable to the Cradle. Place the Pad on the Cradle. (Cradle LED light will turn green.)

5.1.2Pad power switch testing: Turn on the power; checking out power/battery indicator; a Green: normal; b Flashing Green: power charging; c Orange: low power

5.1.3 Testing DVI and D-SUB signal; DVI cable function test: connect DVI cable to the Cradle only; Checking out whether the Pad shows the same screen as Host PC display; D-SUB signal test: connect D-SUB cable to the Cradle only. Checking out whether the Pad shows the same screen as Host PC display.

http://www.wjdj.net

Topic	150DM test guide



5.1.5 brightness and audio volume test:

5.1.5 a Brightness test: dialing Brightness adjusting wheel. Make sure it can regulate the brightness of display.

5.1.5 b Audio Volume test: start media player; dialing Volume adjusting wheel. Check the volume changing and quality. Plug on the headphone and repeat the previous steps for checking out the volume changing and quality.

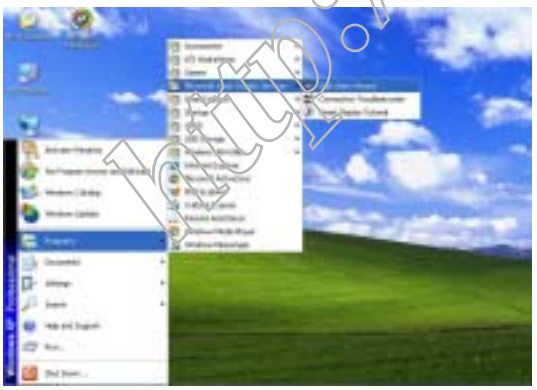
http://www.wjel.net

Topic	150DM test guide

5.1.6 OSD button test: function test of “AUTO”, “OK” and direction buttons 5.1.6a push “OK” button; main controls window will show up in the screen
5.1.6 b chose “ADJUST POSITION”, and adjust “HORIZONTAL” and VERTICAL” for function checking
5.1.6 c chose “CONTRAST”, and adjusts the screen contrast.
5.1.6 d chose “PRODUCT INFORMATION”, and check out the “SERIAL NO.”
5.1.6 e Chose “RESET TO FACTORY SETTING”. Save the OSD setting as the original setting.

5.2MIRA Test

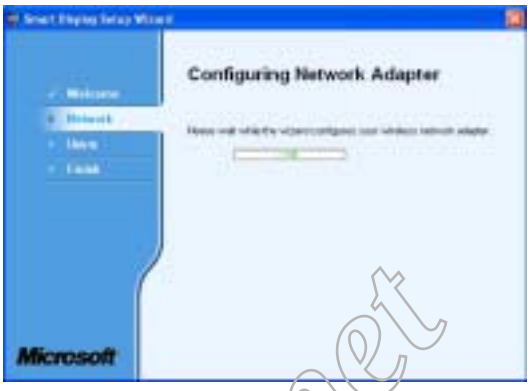
5.2.1 Click onto My computer\Program\Microsoft Smart Display Services\Add User Wizard; It will start Smart Display add user program.



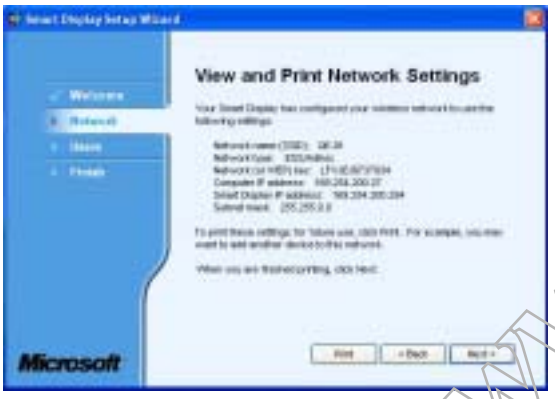
http://www.wjel.net

Topic	150DM test guide

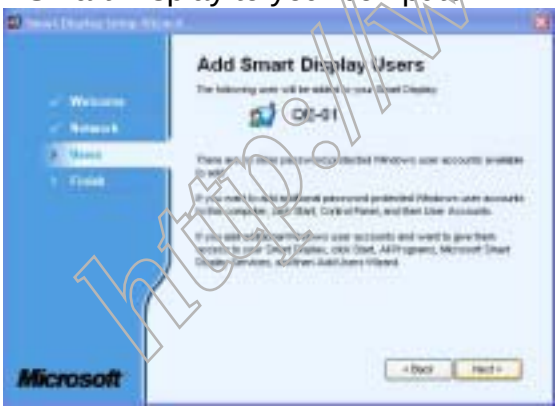
5.2.2 connect Pad to Host PC via USB cable. Make sure the connecting set.



5.2.3 Detecting the current wireless device and testing your wireless connection.



5.2.4 The Smart Display Setup Wizard will automatically start and help you connect your Smart Display to your computer.

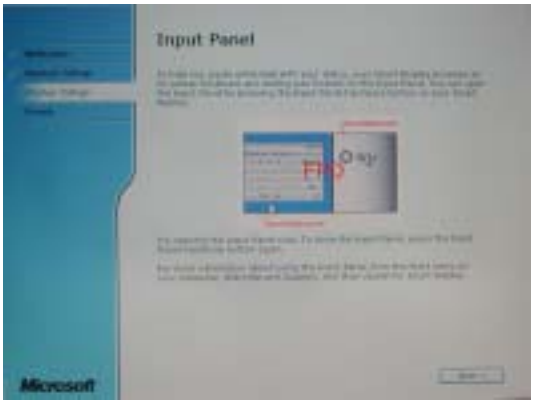


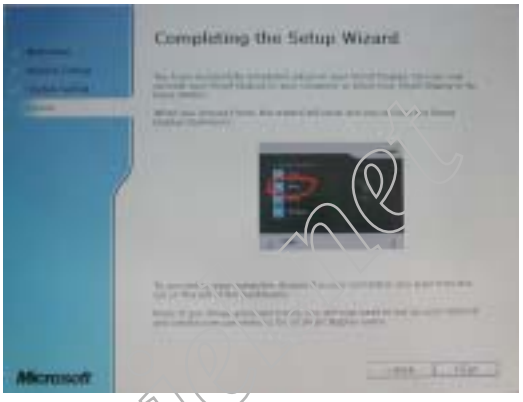
http://www.wjel.net

Topic	150DM test guide

5.2.5 Finish user adding

5.2.6 Take the pad from the cradle. The dashboard will shows the host user name. Wireless LED will be green light.

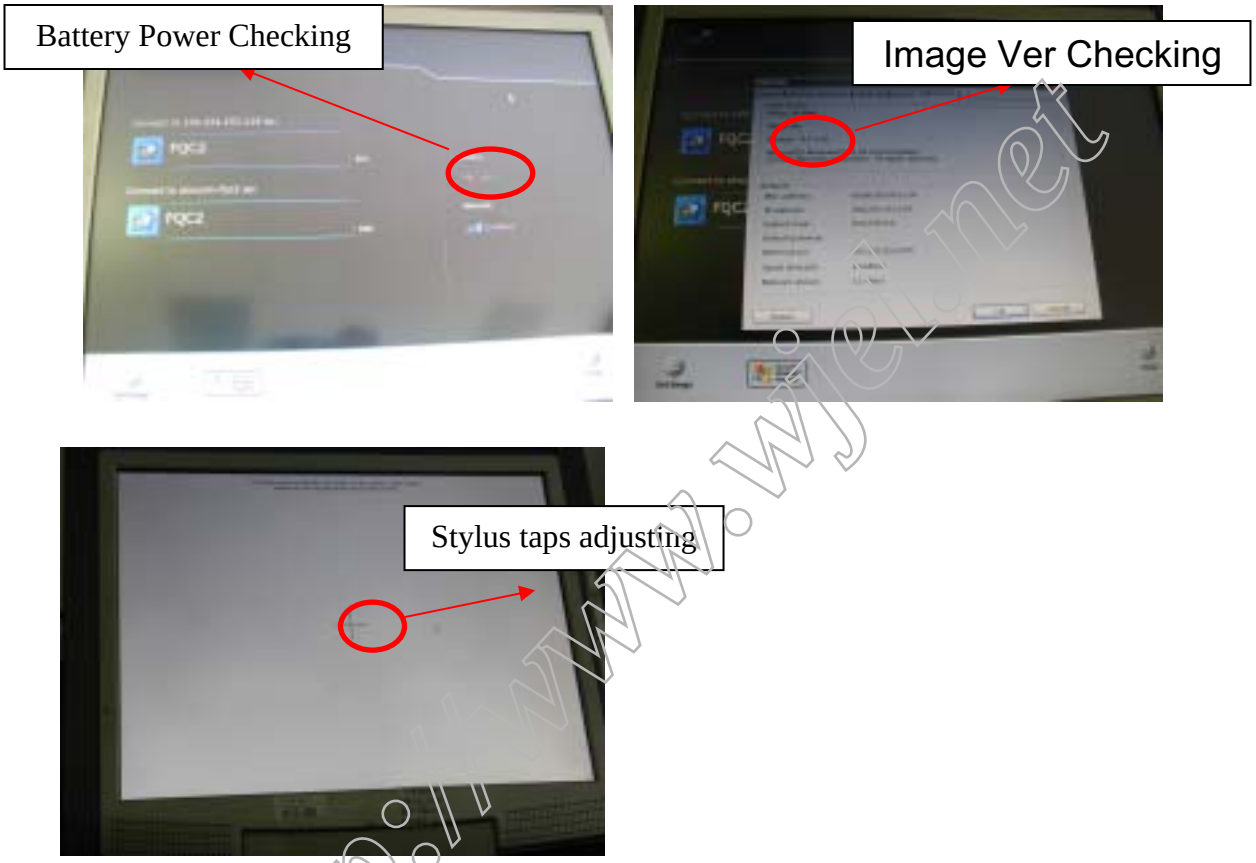




http://www.wj

Topic	150DM test guide

5.1.7 Click on the “settings” of the dashboard
5.1.7a check page “general”. Choose realign for adjusting stylus taps
5.1.7b check page “System Info” for image version
5.1.7c return to dashboard for checking battery power



5.2.7 Checking Mira function
click on the user; key in password for logging in the host PC; test media files (Start/ Programs/ Microsoft Media Player/ Now Playing); stop connection by pushing dashboard button; act “software reset; act hardware reset.

5.3 Power off; minimize brightness and Volume by adusting “brightness adjust wheel” and “Volume adjusting wheel”; pull out the battery.

http://www.wje.net

Topic	150DM test guide

5.1 5.4 Appearance inspection

5.4.1 checking out the logos and icons

5.4.2 checking button and wheels

5.4.3 checking battery cover

5.4.4 inspect LCD and looks

http://www.wjel.net